



Product Datasheet

Chinese Standard

StarCharge International Corp.

2024-12



Main Features

- Excellent industrial design brings pleasant user experience.
- Connect to any backend based on OCPP 1.6J protocol.
- Safe and reassuring: anti-theft design, 5VA grade high flame retardant and fireproof material, circumstance temperature and relay dual point temperature protection technology.
- Space saving: crescent-shaped, with a 25-degree angle design for the connector holder, the vertical space occupation is reduced by 1/3 compared to products on the market.



Specifications

General Information	
Charging Mode	Mode 3
Input/Output Power&Current Rating	7.4kW/32A max.
Input/Output Voltage Rating	110Vac±10%, 220Vac±10%, single phase, 50/60Hz, L+N+PE, L1+L2+PE
Grid Type	TN-S, TN-C-S, TT, IT
Charging Interface	GBT
Metering	On board measurement, Accuracy: Class I
Internal RCD	Type A 30mA ac + 6mA dc
Protection	Overcurrent, Overvoltage, Undervoltage, Residual current, Over temperature, Integrated surge protection
User Interface	
Status Indication	LED indicator
User Authentication	RFID reader
RFID Reader	ISO/IEC 14443 A, IEC/ISO 15693
Communication	
Network Interface	4G, Ethernet, Wi-Fi(optional)
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	Control pilot
Environmental	
Operating Temperature	-30°C to 50°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% no condensation
Altitude	≤3000m above sea level
Mechanical	
IP Rating	IP65
IK Rating	IK10
Cooling	Natural cooling
Charging Cable Length	5m or 7m (optional)
Dimensions (WxHxD)	280*280*148 mm (Pole: 170*1600*90mm)
Weight	Approx. 3.75kg
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards	GB/T 18487.1-2015, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2015, GB/T 18487.2-2017
Certification	GBT Type Test Report, RETIE

30kW GBT



Main Features

- Over 94.5% peak efficiency & 80A high output current.
- 4.3-inch LCD touch panel & RFID card reader.
- Connect to any backend based on OCPP 1.6J protocol.
- Robust all-weather enclosure for indoor and outdoor use.



Specifications

General Information	
Input Rating	380Vac±15%, 3 Phases, 50/60Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥94.5% @ Peak
Grid Type	TN-S, TN-C-S
Output Interface	1 × GB/T DC
Output Power	30kW max.
Output Voltage	200-1000Vdc
Output Current	80A max.
User Interface	
Display	4.3-inch touch screen
Support Language	Simplified Chinese, English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, VIN code
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2015
Environmental	
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP54
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m
Dimensions (WxHxD)	700*500*257mm (Pole: 200*1431*100mm)
Weight	Approx. 47kg (excluding power modules)
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards	GB/T 18487.1-2015, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2015, GB/T 18487.2-2017
Certification	GBT Type Test Report

Gemini 60kW GBT



Main Features



- 200-1000Vdc wide output voltage range.
- 95.5% peak efficiency & 200A high output current.
- Connect to any backend based on OCPP 1.6J protocol.
- Excellent industrial design brings pleasant user experience.

Specifications

General Information	
Input Rating	380Vac±15%, 3 Phases, 50Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥95.5% @ Peak
Grid Type	TN-S, TN-C-S
Output Interface	2 x GB/T DC
Output Power	60kW max./connector, 60kW max. in total
Output Voltage	200-1000Vdc
Output Current	DC 200A max
User Interface	
Display	7-inch touch screen
Support Language	Simplified Chinese, English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID Card, APP, VIN code
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2023
Environmental	
Operating Temperature	-25°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m or 7m(optional)
Dimensions (WxHxD)	850*1550*550mm
Weight	Approx. 195kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards&Protocol	GB/T 18487.1-2023, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2023, GB/T 18487.2-2017
Certification	GBT Type Test Report

Note: Pictures are for reference only, please prevail in kind.

Gemini 80kW GBT



Main Features



- 200-1000Vdc wide output voltage range.
- 95.5% peak efficiency & 266A high output current.
- Connect to any backend based on OCPP 1.6J protocol.
- Excellent industrial design brings pleasant user experience.

Specifications

General Information	
Input Rating	380Vac±15%, 3 Phases, 50Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥95.5% @ Peak
Grid Type	TN-S, TN-C-S
Output Interface	2 x GB/T DC
Output Power	80kW max./connector, 80kW max. in total
Output Voltage	200-1000Vdc
Output Current	DC 266A max., DC 250A max./connector
User Interface	
Display	7-inch touch screen
Support Language	Simplified Chinese, English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID Card, APP, VIN code
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2023
Environmental	
Operating Temperature	-25°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m or 7m(optional)
Dimensions (WxHxD)	850*1550*550mm
Weight	Approx. 195kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards&Protocol	GB/T 18487.1-2023, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2023, GB/T 18487.2-2017
Certification	GBT Type Test Report

Note: Pictures are for reference only, please prevail in kind.

Gemini 120kW GBT



Main Features

- Over 95.5% peak efficiency & 400A high output current.
- 200-1000Vdc wide output voltage range.
- Dual GB/T DC connectors are installed.
- Connect to any backend based on OCPP 1.6J protocol.



Specifications

General Information	
Input Rating	380Vac±15%, 3 Phases, 50Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥95.5% @ Peak
Grid Type	TN-S, TN-C-S
Output Interface	2 × GB/T DC
Output Power	120kW max./connector, 120kW max. in total
Output Voltage	200-1000Vdc
Output Current	DC 400A max., DC 250A max./connector
User Interface	
Display	7-inch touch screen
Support Language	Simplified Chinese, English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, VIN code
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2023
Environmental	
Operating Temperature	-25°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m (7m optional)
Dimensions (WxHxD)	850*1550*550mm
Weight	Approx. 195kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards	GB/T 18487.1-2023, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2023, GB/T 18487.2-2017
Certification	GBT Type Test Report

Gemini 160kW GBT



Main Features

- Over 95.5% peak efficiency & 500A high output current.
- 200-1000Vdc wide output voltage range.
- Dual GB/T DC connectors are installed.
- Connect to any backend based on OCPP 1.6J protocol.



Specifications

General Information	
Input Rating	380Vac±15%, 3 Phases, 50Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥95.5% @ Peak
Grid Type	TN-S, TN-C-S
Output Interface	2 × GB/T DC
Output Power	160kW max./connector, 160kW max. in total
Output Voltage	200-1000Vdc
Output Current	DC 500A max., DC 250A max./connector
User Interface	
Display	7-inch touch screen
Support Language	Simplified Chinese, English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, VIN code
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2023
Environmental	
Operating Temperature	-25°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m (7m optional)
Dimensions (WxHxD)	850*1550*550mm
Weight	Approx. 195kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards	GB/T 18487.1-2023, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2023, GB/T 18487.2-2017
Certification	GBT Type Test Report

Gemini 180kW GBT



Main Features

- Over 95.5% peak efficiency & 500A high output current.
- 200-1000Vdc wide output voltage range.
- Dual GB/T DC connectors are installed.
- Connect to any backend based on OCPP 1.6J protocol.



Specifications

General Information	
Input Rating	380Vac±15%, 3 Phases, 50Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥95.5% @ Peak
Grid Type	TN-S, TN-C-S
Output Interface	2 × GB/T DC
Output Power	180kW max./connector, 180kW max. in total
Output Voltage	200-1000Vdc
Output Current	DC 500A max., DC 250A max./connector
User Interface	
Display	7-inch touch screen
Support Language	Simplified Chinese, English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, VIN code
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2023
Environmental	
Operating Temperature	-25°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m (7m optional)
Dimensions (WxHxD)	850*1800*750mm
Weight	Approx. 325kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards	GB/T 18487.1-2023, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2023, GB/T 18487.2-2017
Certification	GBT Type Test Report

Note: Pictures are for reference only, please prevail in kind.

180kW GBT EVSE (480Vac input)



Main Features

- Over 94% peak efficiency & 250A high output current.
- 200-1000Vdc wide output voltage range.
- Dual GB/T DC connectors are installed.
- Connect to any backend based on OCPP 1.6J protocol.
- Robust all-weather enclosure for indoor and outdoor use.



Specifications

General Information	
Input Rating	480Vac±10%, 3 Phases, 50/60Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥94% @ Full Load (Peak)
Grid Type	TN-S, TN-C-S
Output Interface	2 × GB/T DC
Output Power	180kW max./connector, 180kW max. in total (150kW max. & 120kW max. are optional)
Output Voltage	200-1000Vdc
Output Current	DC 500A max., DC 250A max./connector
User Interface	
Display	7-inch LED touch screen
Support Language	Simplified Chinese, English, Spanish, Portuguese (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2015
Environmental	
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP54
IK Rating	IK10 (Screen IK08)
Cooling	Forced Air
Charging Cable Length	5m (7m optional)
Dimensions (WxHxD)	850*1890*750mm
Weight	Approx. 325kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards	GB/T 18487.1-2015, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2015
Certification	GBT Type Test Report (TBC)

Note: Pictures are for reference only, please prevail in kind.

240kW GBT EVSE



Main Features

- Over 94% peak efficiency & 250A high output current.
- 7 inches LCD Touch Panel & RFID card reader.
- Connect to any backend based on OCPP 1.6J protocol.



Specifications

General Information	
Input Rating	380Vac±15%, 3 Phases, 50-60Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥94% @ Full Load (Peak)
Grid Type	TN-S, TN-C-S
Output Interface	2 × GB/T DC
Output Power	240kW max.
Output Voltage	200-1000Vdc
Output Current	DC 500A max., DC 250A max./connector
User Interface	
Display	7 inches touch screen
Support Language	Simplified Chinese (other languages are available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, VIN code, display, remote start (when connected to platform)
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet (optional), Wi-Fi (optional)
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2015
Environmental	
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP54
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	7m, 10m (optional)
Dimensions (WxHxD)	800*900 (700+200)*1500mm
Weight	Approx. 330kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards	GB/T 18487.1-2015, GB/T 18487.2-2017, NB/T 33001-2018, NB/T 33008.1-2018
Certification	GBT Type Test Report

320kW GBT EVSE



Main Features

- Over 94% peak efficiency & 250A high output current.
- 7 inches LCD Touch Panel & RFID card reader.
- Connect to any backend based on OCPP 1.6J protocol.



Specifications

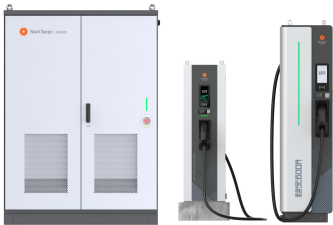
General Information	
Input Rating	380Vac±15%, 3 Phases, 50-60Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Full Load
Efficiency	≥94% @ Full Load (Peak)
Grid Type	TN-S, TN-C-S
Output Interface	2 × GB/T DC
Output Power	320kW max.
Output Voltage	200-1000Vdc
Output Current	DC 500A max., DC 250A max./connector
User Interface	
Display	7 inches touch screen
Support Language	Simplified Chinese (other languages are available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, VIN code, display, remote start (when connected to platform)
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet (optional), Wi-Fi (optional)
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	GB/T 27930-2015
Environmental	
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP54
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	7m, 10m (optional)
Dimensions (WxHxD)	800*900 (700+200)*1500mm
Weight	Approx. 330kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards	GB/T 18487.1-2015, GB/T 18487.2-2017, NB/T 33001-2018, NB/T 33008.1-2018
Certification	GBT Type Test Report

480kW GB/T EVSE Split-type Beidou IV



Main Features

- 40kW@1000V Power module, meeting the needs of all vehicle models
- Dynamic power allocation, on-demand scheduling charging
- Power cabinet real-time automatic cooling adjustment, noise controllable – user unit & cabinet ≤ 65dB in total
- Energy saving – power module no standby power
- Support remote maintenance, firmware upgrade and fault diagnosis.



Specifications

General Information	
Charging scenario	Bus station & public charging sites, etc.
Input Rating	380Vac ± 15%, three-phase, 50 ± 1Hz/60Hz, L1+L2+L3+N+PE
Power factor	≥0.99 @ Full Load
Efficiency	≥95%
THD	≤5%
Output Interface	GB/T DC SPC(natural cooling) & GB/T DC SPC(liquid cooling)
Output Power	480kW max. in total(SPC 250kW max., HPC 480kW max.)
Output Voltage	200-1000Vdc (300-1000Vdc constant power output)
Output Current	DC 1600A max. in total SPC: DC 250A rating/connector(natural cooling, 400A for 10 minutes) HPC: DC 600A rating/connector(liquid cooling)
User Interface	
Display	RGB LED, 7-inch screen(59*28mm)
Support Language	English, Simplified Chinese
Button and Switch	Emergency button
User Authentication	RFID card, App, VIN code, Screen start, Remote start
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Communication	
Network Interface	4G, Ethernet
Protocol (EVSE&Backend)	OCPP1.6j
Protocol (EVSE&EV)	GB/T 27930-2015
Environmental	
Operating Temperature	-40°C to +60°C
Storage Temperature	-40°C to +70°C
Humidity	5% to 90% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP55
IK Rating	IK10
Charging Cable Length	5m for natural cooling, 3.5m for liquid cooling
Dimensions (WxHxD)	Power Cabinet: 1340*1815*930mm(including base) User Unit 1(SPC): 450*1500*248mm / User Unit 2(HPC): 465*1750*340mm
Weight	Power Cabinet: Approx. 556kg (excluding power modules)/736kg(incl. power modules) User Unit 1(SPC): Approx. 64kg User Unit 2(HPC): Approx. 139kg
Installation	Ground mounting
Certification and standards	
Standards	GB/T 18487.1-2015, NB/T 33001-2018, NB/T 33008.1-2018, GB/T 27930-2015, GB/T 18487.2-2017
Certification	GBT Type Test

Note: Pictures are for reference only, please prevail in kind.



Product Datasheet

European Standard

StarCharge International Corp.

2024-12



Main Features

- Multiple electrical protection functions for user safety.
- Support 4G, Wi-Fi, Ethernet.
- Connect any backend based on OCPP 1.6J protocol.



Specifications

General Information		
Charging Mode	Mode 3 (IEC 61851-1)	
Input/Output Power&Current Rating	7kW/32A max.	11kW/16A max.
Input/Output Voltage Rating	230Vac± 10%, single phase, 50/60Hz, L+N+PE	230V± 10%, single phase, 50/60Hz, L1+N+PE 400Vac± 10%, Three phases 50/60Hz, L1+L2+L3+N+PE
Grid Type	TN-S, TN-C-S, TT, IT(L1+L2 230Vac Single phase, optional)	TN-S, TN-C-S, TT, IT(L1+L2 230Vac Single phase, optional)
Charging Interface	IEC 62196-2 Type 2 tethered plug (Case C)	
Metering	Onboard metering chip, Accuracy: 1%	
Internal RCD	6mA DC	
Protection	Overcurrent, Overvoltage, Undervoltage, Residual current, Over temperature, Ground fault(optional),, Integrated surge protection	
User Interface		
Display & Support Languages	No Display	
Status Indication	LED indicator	
Button & Switch	No emergency button, with rotary switch inside(used for setting output current limitation)	
User Authentication	Free Charge + RFID card + APP(optional)	
RFID Reader	ISO/IEC 14443 A, IEC/ISO 15693	
Communication		
Network Interface	4G, Wi-Fi, Ethernet	
Protocol (EVSE&Backend)	OCPP 1.6J	
Protocol (EVSE&EV)	Control pilot	
Environmental		
Operating Temperature	-30℃ to 50℃	
Storage Temperature	-40℃ to 85℃	
Humidity	5% to 95% no condensation	
Altitude	≤3000m above sea level	
Mechanical		
IP Rating	IP65	
IK Rating	IK10	
Cooling	Natural cooling	
Charging Cable Length	5m or 7m (optional)	
Dimensions (WxHxD)	280*280*148 mm (Pole: 100*1210*50mm)	
Weight	Approx. 3.75kg	
Installation	Wall mounting, Pole mounting (Pole is optional)	
Certification and standards		
Standards and compliance	IEC 61851-1, IEC 61851-21-2, RED 2014/53/EU, IEC 62955 (RCD)	
Certification	CE-RED, CB	



Main Features

- Excellent industrial design brings pleasant user experience.
- Connect to any backend based on OCPP 1.6J protocol.
- Could connect to StarCharge Peak Controller (optional accessories) via Ethernet to realize local dynamic load management.



Specifications

General Information	
Charging Mode	Mode 3 (IEC 61851-1)
Input/Output Power&Current Rating	22kW/32A max.
Input/Output Voltage Rating	400Vac±10%, Three phases, 50/60Hz, L1+L2+L3+N+PE (support single phase input)
Grid Type	TN-C-S, TT, IT (L1+L2 187~253Vac)
Charging Interface	Type 2 Electric Vehicle connector complied with IEC 62196-2
Metering	Onboard metering chip, Accuracy: 1%
Internal RCD	DC 6mA
Protection	Overcurrent, Overvoltage, Undervoltage, Residual current, Over temperature, Ground fault(optional), Integrated surge protection
User Interface	
Display & Support Languages	Digital screen (optional)
Status Indication	LED indicator
Button & Switch	Emergency switch (optional), with rotary switch inside (used for setting output current limitation)
User Authentication	Free Charge + RFID card + APP(optional)
RFID Reader	ISO/IEC 14443 A, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	Control pilot
Environmental	
Operating Temperature	-30°C to 50°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% no condensation
Altitude	≤3000m above sea level
Mechanical	
IP Rating	IP65
IK Rating	IK10
Cooling	Natural cooling
Charging Cable Length	5m
Dimensions (WxHxD)	280*280*148mm (Pole: 100*1210*50mm)
Weight	Approx. 6.1kg
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 62955, IEC 61851-21-2, LVD 2014/35/EU, RED 2014/53/EU, IEC 62955 (RCD), RoSH 2.0, REACH
Certification	CE-RED



Main Features

- Excellent operation efficiency, dual 22 kW output.
- Connect to any backend based on OCPP 1.6J protocol.
- Support 4G, Wi-Fi, Ethernet.
- Space-saving for flexible installation method.



Specifications

General Information	
Charging Mode	Mode 3 (IEC 61851-1)
Input/Output Power&Current Rating	2 x 22kW/2 x 32A max.
Input/Output Voltage Rating	400Vac ± 10%, 2*three-phase, 50/60Hz, L1+L2+L3+N+PE
Grid Type	TN-S, TN-C, TN-C-S, TT, IT (L1+L2 187~253Vac)
Charging Interface	Configuration 01: 2 x IEC 62196-2 Type 2 tethered plug (Case C) Configuration 02: 2 x IEC 62196-2 Type 2 socket (Case B)
Metering	MID meter, MID Certified Measurement, Accuracy: 1%(Class B EN50470-3)
Internal RCD	Type A + DC6mA
Protection	Overcurrent, Overvoltage, Undervoltage, Residual current, Over temperature, Ground fault, Integrated surge protection
User Interface	
Display & Support Languages	4.3-inch screen
Status Indication	LED strip
User Authentication	RFID card, QR code, APP (optional), Credit card (optional, payment terminal is necessary)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J, OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	Control pilot (default), ISO 15118 (optional)
Environmental	
Operating Temperature	-25°C to 45°C
Storage Temperature	-40°C to 70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m above sea level
Mechanical	
IP Rating	IP54@Case B, IP55@Case C
IK Rating	IK10
Cooling	Natural cooling
Charging Cable Length	5m
Dimensions (WxHxD)	395*504*197mm (Pole: 250*1378*100mm)
Weight	Approx. 11kg (Case B), Approx.16kg (Case C with cable)
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, LVD 2014/35/EU, RED 2014/53/EU, 2014/32/EU(Measuring Instruments Directive)
Certification	CE-RED, CB, UKCA, RCM, WPC, NTC

Arc 22 Smart



Main Features

- Excellent industrial design brings pleasant user experience.
- Connect to any backend supporting both OCPP 1.6J & 2.0.1 protocols.
- Reserved with Bluetooth5.0 for easy commissioning.
- Could connect to Star Charge Peak Controller (optional accessories) via Ethernet to realize local dynamic load management.



Specifications

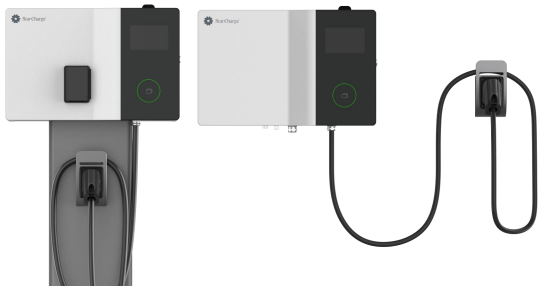
General Information	
Charging Mode	Mode 3 (IEC 61851-1)
Input/Output Power&Current Rating	22kW/32A max.
Input/Output Voltage Rating	230Vac $\pm$ 10%, 50Hz, Single phase (L1+N+PE) 400Vac $\pm$ 10%, 50Hz, Three phases (L1+L2+L3+N+PE)
Grid Type	TN-S, TN-C-S, TT, IT(L1+L2 230Vac Single phase, optional)
Charging Interface	1 x IEC 62196-2 Type 2 socket (Case B)
Metering	Onboard metering chip, Accuracy: 1%
Internal RCD	30mA AC+ 6mA DC(Internal chip integration)
Protection	Overcurrent, Overvoltage, Undervoltage, Residual current, Over temperature, Grounding fault, Integrated surge protection
User Interface	
Display & Support Languages	4.3-inch LCD display (optional)
Status Indication	LED indicator
Bluetooth	5.0
User Authentication	RFID card, QR code, APP (optional), Credit card (optional, payment terminal is necessary)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J, OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	ISO 15118
Environmental	
Operating Temperature	-30°C to 50°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% no condensation
Altitude	$\leq$ 3000m above sea level
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Natural cooling
Dimensions (WxHxD)	208*420*150mm (Pole: 120*1280*60mm)
Weight	Approx. 4kg (Case B)
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, RED 2014/53/EU, IEC 62955 (RCD), IEC 61008 (RCD)
Certification	CE-RED, CB

Venus 30 V2



Main Features

- 95% peak efficiency & 100A high output current.
- 7 inches LCD touch panel & RFID card reader.
- Connect to any backend based on OCPP 1.6J protocol.
- Robust all-weather enclosure for indoor and outdoor use.



Specifications

General Information	
Input Rating	400Vac±10%, 3 phases, 50/60Hz, L1+L2+L3+N+PE
Input Current Rating	AC 50A
Power Factor	≥0.98 @ Full Load
Efficiency	95%
Grid Type	TN-S, TN-C-S, TT
Output Interface	1 × CCS2
Output Power	30kW max.
Output Voltage	150-1000Vdc
Output Current	100A max.
User Interface	
Display	7-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, Credit card(Optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30℃ ~ +50℃ (derating over 50℃)
Storage Temperature	-40℃ ~ +70℃
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen is IK08)
Cooling	Forced Air
Charging Cable Length	5m
Dimensions (WxHxD)	680*440*280mm (Pole: 330*1272*200mm)
Weight	Approx. 35kg (excluding power modules)
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED, CB, UKCA, RCM, WPC, NTC, NBTC, SDPPI(ongoing), SIRIM(ongoing)



Main Features

- 95% peak efficiency & 200A high output current.
- Installation space-saving: support wall-mounted installation, only 350mm thickness of the wall box.
- Connect to any backend based on OCPP 1.6J protocol.
- User friendly Cable Management System (Optional) for easier operation.



Specifications

General Information	
Input Rating	400Vac±10%, 3-phases, 50/60Hz, L1+L2+L3+PE
Input Current Rating	AC 90A
Power Factor	≥0.99 @ Full Load
Efficiency	95%
Grid Type	TN-S, TN-C-S, TT, IT
Output Interface	CCS2+CCS2 or CCS2+CHAdeMO
Output Power	60kW max.
Output Voltage	CCS2: 200-1000Vdc, CHAdeMO: 200-500Vdc
Output Current	CCS2: 200A max./connector, CHAdeMO: 125A max./connector
User Interface	
Display	7-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Mechanical Buttons & Emergency Button
User Authentication	RFID card, App (optional), Credit card (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Noise	≤65dB @ 1m & full load
Charging Cable Length	4.8m
Dimensions (WxHxD)	1300*1118*358mm (including cable management system)
Weight	Approx. 125kg (excluding power modules) , Cable Management system approx. 35kg
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED, TR25 (ongoing)

Jupiter 60 V3



Main Features

- Support CCS2+CCS2+Type2 simultaneous charging.
- User friendly Cable Management System for easier operation.
- Connect any backend based on OCPP 1.6J protocol.
- Robust all-weather enclosure for indoor and outdoor use.



Specifications

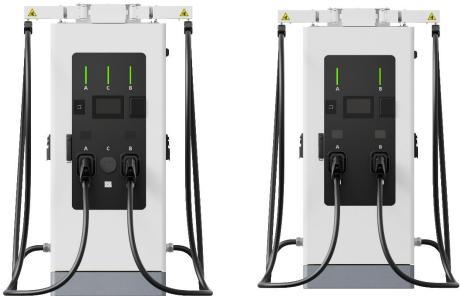
General Information	
Input Rating	400Vac±10%, 50/60Hz, L1+L2+L3+N+PE
Input Current Rating	AC 100A
Power Factor	≥0.98 @ Full Load
Efficiency	95%
Grid Type	TN-S, TN-C-S, TT
Output Interface	Configuration 01: 2 x CCS2 + Type2 Socket(or French socket available) Configuration 02: CCS2 + CHAdeMO + Type2 Socket(or French socket available) Configuration 03: CCS2 + CCS2
Output Power	DC 60kW max. + AC 22kW max.
Output Voltage	CCS2: 150-1000Vdc, CHAdeMO: 150Vdc-500Vdc, Type2: 400Vac±10%
Output Current	CCS2: 200A max./connector, Type2: 32A max, CHAdeMO: 125A max./connector
Charging Mode	Support simultaneous charging for all connectors.
User Interface	
Display	7-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App, Credit card (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m
Dimensions (HxWxD)	1894x1050x710mm (including cable management system) 1650x700x457mm (excluding cable management system, cable management system is optional)
Weight*	Approx. 200kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED, CB, UKCA

Note: Pictures are for reference only, please prevail in kind.



Main Features

- 150-1000Vdc wide output voltage range.
- Flexible configuration, AC Type2 socket optional.
- User friendly Cable Management System (Optional) for easier operation.
- Connect to any backend based on OCPP 1.6J protocol.
- Equipped with payment terminal (Optional).



Specifications

General Information	
Input Rating	400Vac±10%, 3-phase, 50/60Hz, L1+L2+L3+N+PE (No neutral line for IT system)
Input Current Rating	AC 91A for 60kW output and AC 121A for 80kW output
Power Factor	≥0.99 @ Full Load
Efficiency	97%
Grid Type	TN-S, TN-C-S, TT, IT
Output Interface	CCS2+CCS2 or CCS2*2+Type2
Output Power	CCS2: 60kW max (80kW max. are optional), Type2: 22kW
Output Voltage	CCS2: 150-1000Vdc
Output Current	CCS2: 200A max
User Interface	
Display	7.0-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App (optional), Credit card (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5.5m
Operating Range with Cable Management System	5.5m cable @ approx. 4m operating range (cable will not touch ground)
Dimensions (HxWxD)	700*470*1650mm (without cable management system) 1020*470*1770mm (with cable management system)
Weight*	Approx. 245kg (excluding power modules & CMS) Approx. 33kg (cable management system) / Approx. 15kg per power module
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED, CB, UKCA, PTB

Note: Pictures are for reference only, please prevail in kind.

Jupiter 60 CCS2+GB/T



Main Features

- Support CCS2+GBT simultaneous charging.
- User friendly Cable Management System (optional) for easier operation.
- Connect any backend based on OCPP 1.6J protocol.
- Robust all-weather enclosure for indoor and outdoor use.



Specifications

General Information	
Input Rating	400Vac±10%, 50/60Hz, L1+L2+L3+N+PE
Power Factor	≥0.98 @ Full Load
Efficiency	95%
Grid Type	TN-S, TN-C-S, TT
Output Interface	CCS2 + GB/T
Output Power	DC 60kW max.
Output Voltage	150-1000Vdc
Output Current	CCS2: 200A max., GB/T: 200A max. (Support simultaneous charging)
User Interface	
Display	7-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App(Optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118, GB/T 27930
Environmental	
Operating Temperature	-30℃ ~ +50℃ (derating over 50℃)
Storage Temperature	-40℃ ~ +70℃
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Noise	≤55db @30℃
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m
Dimensions (HxWxD)	1894x1050x710mm (including cable management system) 1650x700x457mm (excluding cable management system, cable management system is optional)
Operation force of cable management system	≤80N
Weight*	Approx. 200kg (excluding power modules)
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23
Certification	CB

Note: Pictures are for reference only, please prevail in kind.

Hyperion 120~240kW



Main Features

- 150-1000Vdc wide output voltage range.
- User friendly Cable Management System (Optional) for easier operation.
- ADA compliance.
- Connect to any backend based on OCPP 1.6J protocol.



Specifications

General Information	
AC Rated Input Power	400V/3P+N+PE 50/60Hz
AC Input Voltage Range	400V±15%
AC Rated Input Current	277A
Power Factor	≥0.99 @ Full Load
Efficiency	95%
Grid Type	TN-S, TN-C, TN-C-S, TT
Connector Type	CCS2+CCS2 (simultaneous charging)
Rated Power	180kW (30kW as an increment)
Output Voltage	150~1000Vdc
Output Current	300A/connector
User Interface	
Display	10.4-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency stop button
User Authentication	RFID card, QR code, App (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J, OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C to +50°C (Derating over 50°C)
Storage Temperature	-40°C to +70°C
Humidity	5% to 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (IK08 for screen)
Cooling	Forced air cooling
Charging Cable Length	5m(optional)
Cable Management System (optional)	Swing arm version
Operating Range with Cable Management System	5m cable @ approx. 3.8m operating range (cable will not touch ground)
Dimensions (WxHxD)	750x1790x720mm (without connector holder and cable management system)
Weight	Approx. 285kg (without power modules and cable management system) Approx. 15kg per power module Approx. 28kg cable management system
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE, CB

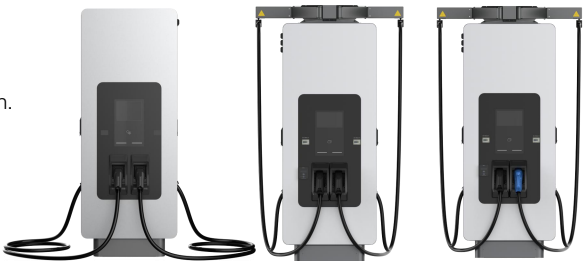
Note: Pictures are for reference only, please prevail in kind.

Titan 120~180kW V3



Main Features

- 150-1000Vdc wide output voltage range.
- Flexible configuration, CCS2 and CHAdeMO optional.
- User friendly Cable Management System (Optional) for easier operation.
- ADA compliance.
- Connect to any backend based on OCPP 1.6J protocol.
- Equipped with payment terminal (optional).
- Dynamic load management.



Specifications

General Information	
Input Rating	400Vac± 15%, 3-phase, 50/60Hz, L1+L2+L3+N+PE (No neutral line for IT system)
Input Current Rating	AC 277A (AC 231A for 150kW output and AC 185A for 120kW output)
Power Factor	≥0.99 @ Full Load
Efficiency	95%, 97% (optional)
Grid Type	TN-S, TN-C-S, TT, IT
Output Interface	CCS2+CCS2 or CCS2+CHAdeMO
Output Power	CCS2: 180kW max. (150kW max. & 120kW max. are optional) CHAdeMO: 62.5kW max.
Output Voltage	CCS2: 150-1000Vdc, CHAdeMO: 150-500Vdc
Output Current	CCS2: 300A rated (500A max.), CHAdeMO: 125A max.
User Interface	
Display	10.4-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App (optional), Credit card (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m or 6m(optional)
Operating Range with Cable Management System	5m cable @ approx. 3m operating range (cable will not touch ground) 6m cable @ approx. 4m operating range (0.3m cable will be on ground)
Dimensions (WxHxD)	800*2050*750mm (without connector holder and cable management system) 1259*2235*750mm (with cable management system))
Weight	Approx. 435kg (excluding power modules & CMS) Approx. 36kg (cable management system)/Approx. 15kg per power module
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED, CB, UKCA, RCM, WPC, NBTC, SIRIM(ongoing), TR-25

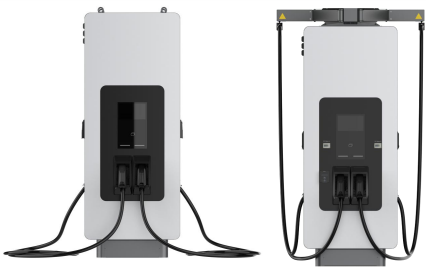
Note: Pictures are for reference only, please prevail in kind.

Titan 120~180kW CCS2+GB/T



Main Features

- 200-1000Vdc wide output voltage range.
- Flexible configuration, CCS2 and GBT optional.
- User friendly Cable Management System (Optional) for easier operation.
- Connect to any backend based on OCPP 1.6J protocol.
- Dynamic load management.



Specifications

General Information	
Input Rating	400Vac±15%, 3-phase, 50/60Hz, L1+L2+L3+N+PE (No neutral line for IT system)
Input Current Rating	AC 276A (AC 230A for 150kW output and AC 184A for 120kW output)
Power Factor	≥0.99 @ Full Load
Efficiency	95%
Grid Type	TN-S, TN-C-S, TT, IT
Output Interface	CCS2+GBT
Output Power	180kW max. (150kW max. & 120kW max. are optional)
Output Voltage	200-1000Vdc
Output Current	CCS2: 300A max, GBT: 250A max.
User Interface	
Display	10.4-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency button
User Authentication	RFID card, App (optional), Credit card (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN70121, ISO 15118, GBT27930
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m or 6m(optional)
Operating Range with Cable Management System	5m cable @ approx. 3m operating range (cable will not touch ground) 6m cable @ approx. 4m operating range (0.3m cable will be on ground)
Dimensions (WxHxD)	800*2050*750mm (without connector holder and cable management system) 800*2235*750mm (with cable management system))
Weight	Approx. 390kg (excluding power modules) Approx. 36kg (cable management system)
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23
Certification	CB

Note: Pictures are for reference only, please prevail in kind.

Titan V4 320



Main Features

- 150-1000Vdc wide output voltage range, compatible with most EV models in market.
- High performance, 97% efficiency & maximum 500A output.
- User friendly Cable Management (optional) for easier operation.
- Light on the top(optional) for clearer indication.
- Connect to any backend based on OCPP protocol.
- Dynamic load management.



Specifications

General Information	
Input Rating	400Vac± 15%, 3 phases, 50/60Hz, L1+L2+L3+PE+N (N is optional)
Input Current Rating	AC 481A for 320kW output / AC 421A for 280kW output / AC 361A for 240kW output
Power Factor	≥0.99 @ Full Load
Efficiency	97%
Output Interface	CCS2+CCS2 (simultaneous charging)
Output Power	320kW max.(40kW as an increment)
Output Voltage	150-1000Vdc
Output Current	300A rated (500A max.)
User Interface	
Display	10.4-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency Button
User Authentication	RFID card, App, Payment terminal (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J (OCPP2.0 could be updated in the future)
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen is IK08)
Cooling	Forced Air
Charging Cable Length	5m or 6m (optional)
Cable Management System (optional)	Swing Arm version
Operating Range with Cable Management System	5m cable @ approx. 3m operating range (cable will not touch ground) 6m cable @ approx. 4m operating range (0.3m cable will be on ground)
Dimensions (WxHxD)	800*2050*750mm 1259*2225*800mm (with cable management system)
Weight	Approx. 410kg (excluding power modules)/CMS approx. 36kg/Upper LED light approx. 15.5kg/Approx. 17kg per power module*
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE, CB

Note: Pictures are for reference only, please prevail in kind.



Main Features

- New generation power module with peak efficiency 97% at full load & wide power input range.
- Integrated type – small footprint, high power output, save installation space and cost.
- Flexible configuration – Max. 4 connectors operating at the same time, natural & liquid-cooling output connector integrated in one system.
- 15.6” LCD touch screen & remote LED status indicator – user-friendly operation.
- User friendly Cable Management System for easier operation.
- ADA compliance.



Specifications

General Information

General Information		
Renderings		
Input Rating	400Vac± 10%, three-phase, 50/60Hz, 2 x (L1+L2+L3+N+PE) (N line is optional)	
Power Factor	≥0.99 @ Full Load	
Efficiency	97%	
Grid Type	TN-C,TN-S, TN-C-S, TT, IT	
Output Interface	2*CCS2(Liquid-cooling)+2*CCS2(Natural-cooling) 4*CCS2(Natural-cooling)	2*CCS2(Liquid-cooling) 2*CCS2(Natural-cooling)
Output Power	480kW max. in total	
Output Voltage	150-1000Vdc	
Output Current	CCS2(Liquid-cooling): 500A rating/connector CCS2(Natural-cooling): 375A rating/connector, *500A max./connector	
User Interface		
Display	15.6-inch LCD touch screen	
Support Language	English, Spanish, Portuguese (Other languages available upon request)	
Button and Switch	Emergency button	
User Authentication	RFID reader, QR code, App (optional), Credit card (optional)	
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693	
Communication		
Network Interface	4G, Wi-Fi, Ethernet	
Protocol (EVSE&Backend)	OCPP 1.6J, OCPP 2.0 (ongoing)	
Protocol (EVSE&EV)	DIN 70121, ISO 15118	
Environmental		
Operating Temperature	-30℃ ~ +50℃ (derating over 50℃)	
Storage Temperature	-40℃ ~ +70℃	
Noise	*≤65dB @ 1m & full load & 50℃	
Humidity	5% ~ 95% no condensation	
Altitude	≤2000m	
Mechanical		
IP Rating	IP55	
IK Rating	IK10 (Screen - IK08)	
Cooling	Forced air cooling	
Charging Cable Length	5m	
Operating Range with CMS	*5m cable @ approx. 3.9m operating range (cable will not touch ground)	
Dimensions (WxHxD)	850 x 2200 x 850mm	
Weight	*TBD	
Installation	Ground mounting	
Certification and standards		
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU	
Certification	CE, CB, *PTB	

Note: Pictures are for reference only, please prevail in kind.

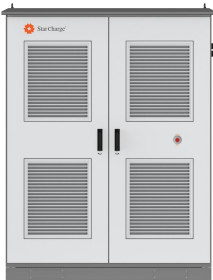
* Value will be updated after testing.

Nova 360 Power Cabinet



Main Features

- Smart power pool technology.
- Up to 360kW output power in total.
- 150-1000V DC wide output voltage range.
- Connect with 12 user units max per power cabinet.
- Compatibility with all Star Charge user units.



Specifications

Product Information		
Input Voltage	400V AC ±10%, 50/60Hz, Three-phase (L1+L2+L3+N+PE)	
Input Current	550A AC	
Power Factor	≥0.99 @ Full Load	
Peak Efficiency	≥95%	
Earthing System	TN-S, TN-C-S, TT	
Output Power	360kW max. (180 kW max. per connector)	360kW max. (360 kW max. per connector)
Output Voltage	150-1000V DC	
Output Current	1200A max.	
Overvoltage	CAT III	
Scene Conditions	C3-M	
User Interface		
Button	Emergency stop button	
Communication		
Connectivity	4G, Wi-Fi, Ethernet	
Communication to the Backend	OCPP 1.6J	
Maximum Supported user unit per power cabinet	12 connectors	6 connectors
Environmental		
Operating Temperature	-30°C ~ +50°C (derating over 50°C)	
Storage Temperature	-40°C ~ +70°C	
Humidity	5% ~ 95% no condensation	
Altitude	≤2000m	
Mechanical		
IP Rating	IP55	
IK Rating	IK10	
EVSE Cooling	Air-cooling	
Dimensions (WxHxD)	1564 x 2045 x 1223mm	
Weight	Approx. 655kg (power cabinet) Approx. 15kg (one power module)	
Installation	Ground mounting	
Certification and Standards		
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU	
Certification	CE-RED	

Note: Pictures are for reference only, please prevail in kind.

Nova 720 Power Cabinet (Available in 2025 Q1)



Main Features

- Smart power pool technology.
- 97% peak efficiency & high output current.
- Up to 720kW output power in total.
- Connect with 12 user units max per power cabinet.
- Small footprint.



Specifications

Product Information	
AC Input Voltage	400Vac±10%, three-phase, 50/60Hz, 2 x (L1+L2+L3+N+PE)
AC Input Current	1100A
Power Factor	≥0.99 @ Full Load
Peak Efficiency	97%
Earthing System	TN-C, TN-S, TN-C-S, TT
Output Power	720kW
Output Voltage	150-1000V DC
Output Current	2400A
Overvoltage	CAT III
Scene Conditions	C3-M
User Interface	
Button	Emergency stop button
Communication	
Connectivity	4G, Wi-Fi, Ethernet
Communication to the Backend	OCPP 1.6j
Maximum Supported user unit per power cabinet	12 connectors
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
EVSE Cooling	Forced air-cooling
Dimensions (WxHxD)	1500 x 2000 x 1220mm
Weight	Approx. 944kg (power cabinet) Approx. 17kg (one power module)
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE (ongoing), CB (ongoing)

Note: Pictures are for reference only, please prevail in kind.

Aries User Unit



Main Features

- 150-1000V DC wide output voltage range.
- Equipped with 10.1-inch touch screen.
- Small footprint.



Specifications

Product Information	
Input Voltage	230V AC ±10%, 50/60Hz, Single-phase (L+N+PE)
Charging Interface	2 x CCS2 plug (air-cooling)
Output Voltage	150-1000V DC
Output Current	200A DC max.
Metering	CE meter
User Interface	
Screen Type	10.1-inch touch screen
Status Indication	LED indicator
Button	Emergency stop button
User Authentication	RFID card, QR code, APP (optional), Free charging, MAC authentication, Credit card (optional, payment terminal is necessary)
Communication	
Connectivity	4G, Ethernet
Communication to the Backend	OCPP 1.6J
Communication to the EV	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen IK08)
EVSE Cooling	Air-cooling
Charging Cable Length	5m
Dimensions (WxHxD)	725 x 2597 x 504mm
Weight	Approx. 182kg (EVSE with 5m charging cable)
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED, CB

Note: Pictures are for reference only, please prevail in kind.

Aries V2 User Unit (Available in 2025 Q1)



Main Features

- High performance, maximum 600A output.
- User friendly Cable Management System for easier operation.
- Light on the top for customization.
- Small footprint.



Specifications

Product Information	
Input Voltage	230Vac±10%, 50/60 Hz, L+N+PE
Charging Interface	2 x CCS2 plug
Output Voltage	150-1000V DC
Output Current	380A rated (600A max.)
Metering	PTB meter, CE meter (optional)
User Interface	
Screen Type	7-inch touch screen
Status Indication	LED indicator
Button	Emergency stop button
User Authentication	RFID card, QR code, APP (optional), Free charging, MAC authentication, Credit card (optional, payment terminal is necessary)
Communication	
Connectivity	4G, Ethernet
Communication to the Backend	OCPP 1.6], OCPP 2.0 (ongoing)
Communication to the EV	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen IK08)
EVSE Cooling	Natural cooling
Charging Cable Length	CCS2: 6m
Dimensions (WxHxD)	720 x 2169 x 720mm
Weight	Approx. 200kg (EVSE with 6m charging cable and CMS)
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE (ongoing), CB (ongoing)

Neptune Liquid-cooling User Unit



Main Features

- Smart ID design.
- 150-1000V DC wide output voltage range.
- 500A DC of output current
- User friendly Cable Management System for easier operation.



Specifications

Product Information	
Input Voltage	230V AC ±10%, 50/60Hz, Single-phase (L+N+PE)
Charging Interface	2 x CCS2 plug (liquid-cooling)
Output Voltage	150-1000V DC
Output Current	500A DC max.
Simultaneous Charging	Yes (400A max./connector simultaneous charging)
Metering	CE meter
User Interface	
Screen Type	10.4-inch touch screen
Status Indication	LED indicator
Button	Emergency stop button
User Authentication	RFID card, QR code, APP (optional), Free charging, MAC authentication, Credit card (optional, payment terminal is necessary)
Communication	
Connectivity	4G, Ethernet
Communication to the Backend	OCPP 1.6J
Communication to the EV	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen IK08)
EVSE Cooling	Liquid-cooling
Charging Cable Length	CCS2: 5m (effective length with CMS: 3.4m)
Dimensions (WxHxD)	1050 x 2200 x 707mm
Weight	Approx. 260kg (EVSE with 5m charging cable and CMS)
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED

Neptune Air-cooling User Unit



Main Features

- Smart ID design.
- 150-1000V DC wide output voltage range.
- 300A DC of output current
- User friendly Cable Management System for easier operation. .



Specifications

Product Information	
Input Voltage	230V AC ±10%, 50/60Hz, Single-phase (L+N+PE)
Charging Interface	2 x CCS2 plug (air-cooling)
Output Voltage	150-1000V DC
Output Current	400A DC max.
Metering	CE meter / PTB meter
User Interface	
Screen Type	10.4-inch touch screen
Status Indication	LED indicator
Button	Emergency stop button
User Authentication	RFID card, QR code, APP (optional), Free charging, MAC authentication, Credit card (optional, payment terminal is necessary)
Communication	
Connectivity	4G, Ethernet
Communication to the Backend	OCPP 1.6j
Communication to the EV	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen IK08)
EVSE Cooling	Natural cooling
Charging Cable Length	CCS2: 6m (effective length with CMS: 3m)
Dimensions (WxHxD)	1050 x 2200 x 707mm
Weight	Approx. 244kg (EVSE with 6m charging cable and CMS)
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED

Seraph User Unit



Main Features



- Smart ID design.
- 150-1000V DC wide output voltage range.
- 250A DC of output current
- User friendly Cable Management System for easier operation.

Specifications

Product Information	
AC Input Voltage	230V AC ±10%, 50/60Hz, Single-phase (L+N+PE)
Charging Interface	2 x CCS2 plug(Natural-cooling)
Output Voltage	150-1000V DC
Output Current	250A DC max.
Metering	CE meter
User Interface	
Screen Type	7-inch touch screen
Status Indication	LED indicator
Button	Emergency stop button
User Authentication	RFID card, QR code, APP (optional), Free charging, MAC authentication
Communication	
Connectivity	4G, Ethernet
Communication to the Backend	OCPP 1.6j
Communication to the EV	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen IK08)
EVSE Cooling	Natural-cooling
Charging Cable Length	CCS2: 7.5m (effective length with CMS: 4m)
Dimensions (WxHxD)	220 x 2184 x 720mm
Weight	Approx. 209kg
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU



Main Features

- Excellent industrial design brings pleasant user experience.
- 150-1000V DC wide output voltage range.
- Space-saving for flexible installation method.



Specifications

Product Information	
Input Voltage	230V AC ±10%, 50/60Hz, Single-phase (L+N+PE)
Charging Interface	1 x CCS2 plug
Output Voltage	150-1000V DC
Output Current	250A DC max.
Metering	CE meter
User Interface	
Screen Type	Optional (work with charge controller)
Status Indication	LED indicator
Button	ON/OFF button
User Authentication	Without Charge Controller: Free Charging, MAC authentication With Charge Controller: RFID card, QR code, APP (optional), Free charging, MAC authentication, Credit card (optional payment terminal is necessary)
Communication	
Connectivity	Ethernet with power cabinet
Communication to the Backend	OCPP 1.6J
Communication to the EV	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
EVSE Cooling	Air-cooling
Charging Cable Length	10m
Dimensions (WxHxD)	860 x 375 x 121.5mm
Weight	Approx. 49.8kg
Installation	Roof mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED

Charge Controller

Main Features

- Excellent industrial design brings pleasant user experience.
- Friendly designed HMI.



Specifications

Product Information	
Input Voltage	230V AC ±10%, 50/60Hz, Single-phase (L+N+PE)
User Interface	
Screen Type	10.4-inch touch screen
Button	Emergency stop button
User Authentication	RFID card, QR code, APP (optional), Credit card (optional, payment terminal is necessary)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 15693, ISO/IEC 18092
Communication	
Connectivity	4G, Wi-Fi, Ethernet
Communication to the EVSE	Ethernet
Supported EVSE per Controller	6 connectors max.
Environmental	
Operating Temperature	-30°C ~ +50°C (derating over 50°C)
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10 (Screen: IK08)
Dimensions (WxHxD)	590 x 398.5 x 160mm
Weight	Approx. 19kg
Installation	Wall mounting
Certification and Standards	
Certification	CE-RED



Product Datasheet

American Standard

StarCharge International Corp.

2024-12



Main Features

- Multiple electrical protection functions for user safety.
- Equipped with Bluetooth for easy commissioning.
- Connect any backend based on OCPP 1.6J protocol.



Specifications

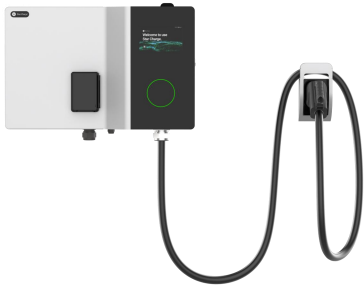
General Information			
Input/Output Power&Current Rating	7kW/32A max.	11.5kW/48A max.	19.2kW / 80A max.
Input/Output Voltage Rating	208Vac±10% or 240Vac±10%, Three-Wire, 50/60Hz, L1+L2+PE		
Input interface	Wiring terminals		
Charging Interface	1 x SAE J1772	1 x SAE J1772 or NACS	
Metering	Onboard metering chip, Accuracy: Class 1		
Personal Protection	CCID 20		
OCPD (Overcurrent Protection Device)	40A	60A	100A
System Protection	Overcurrent, Overvoltage, Undervoltage, Residual current, Over temperature, Ground fault, Integrated surge protection		
User Interface			
Display	4.3-inch LCD display (optional)		
Status Indication	LED indicators		
Bluetooth	Bluetooth 5.0 (optional)		
User Authentication	RFID card, QR code, Credit card (optional)		
RFID Reader	ISO/IEC 14443 A, IEC/ISO 15693		
Communication			
Network Interface	4G, Wi-Fi, Ethernet		
Protocol (EVSE&Backend)	OCPP1.6J		
Protocol (EVSE&EV)	Control pilot (default), ISO 15118 (Optional)		
Environmental			
Operating Temperature	-22° F to 122° F (-30° C to 50° C)		
Storage Temperature	-40° F to 185° F (-40° C to 85° C)		
Humidity	5% to 95% no condensation		
Altitude	≤9842.52' (3000m) above sea level		
Mechanical			
NEMA Enclosure	Type 4		
IK Rating	IK10		
Cooling	Natural cooling		
Charging Cable Length	24.6' (7.5m), 16.4' (5m) (optional)		
Dimensions (WxHxD)	0.92*0.92*0.49' (280*280*148mm)		
Weight	Approx. 13.23 lb (6kg)	Approx. 13.23 lb (6kg)	Approx. 14.11 lb (6.4)
Installation	Wall mounting, Pole mounting (Pole is optional)		
Certification and standards			
Standards and compliance	UL2231-1, UL 2231-2, UL2594, FCC Part 15 Class B, Energy Star, CTEP, UL 1998, UL991		
Certification	CSA, FCC, Energy Star, CTEP(without POS)		

Note: Pictures are for reference only, please prevail in kind.



Main Features

- 95% peak efficiency & 100A high output current.
- 7 inches LCD Touch Panel & RFID card reader.
- Connect to any backend based on OCPP 1.6j protocol.
- Robust all-weather enclosure for indoor and outdoor use.



Specifications

General Information		
Input Rating	408Vac-528Vac, 3 phases, 50/60Hz, L1+L2+L3+N+PE	
Input Current Rating	AC 39A	
Power Factor	≥0.98 @ Full Load	
Efficiency	95%	
Output Interface	CCS1	NACS
Output Power	30kW max.	
Output Voltage	150-1000Vdc	
Output Current	CCS1: 100A max.	NACS: 80A max.
OCPD (Overcurrent Protection Device)	50A	
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD	
User Interface		
Display	7-inch touch screen	
Support Language	English (Other languages available upon request)	
Button and Switch	Emergency button	
User Authentication	RFID card, QR code, Credit card(Optional)	
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693	
Communication		
Network Interface	4G, Wi-Fi, Ethernet	
Protocol (EVSE&Backend)	OCPP 1.6J	
Protocol (EVSE&EV)	DIN 70121, ISO 15118	
Environmental		
Operating Temperature	-31° F to 122° F (-35° C to 50° C) (Derating from 122° F/50° C)	
Storage Temperature	-40° F to 158° F (-40° C to 70° C)	
Humidity	5% to 95% no condensation	
Altitude	≤6561.28’ (2000m) above sea level	
Mechanical		
NEMA enclosure	Type 3R	
IK Rating	IK10 (Screen is IK08)	
Cooling	Forced Air	
Charging Cable Length	16.4’ (5m)	
Dimensions (WxHxD)	2.23*1.44*0.94’ (680*440*286mm)	
Weight	Approx. 66.14 lb (30kg) (excluding power modules)	
Installation	Wall mounting, Pole mounting (Pole is optional)	
Certification and standards		
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP	
Certification	CSA, FCC, Energy Star, CTEP	



Main Features

- 95% peak efficiency & 200A high output current.
- Installation space-saving: support wall-mounted installation, only 350mm thickness of the wall box.
- Connect to any backend based on OCPP 1.6J protocol.
- User friendly Cable Management System (Optional) for easier operation.



Specifications

General Information	
Input Rating	480Vac±10%, 3 phases, 50/60Hz, L1+L2+L3+PE
Input Current Rating	AC 77A
Power Factor	≥0.98 @ Full Load
Efficiency	95%
Output Interface	CCS1+CCS1
Output Power	60kW max.
Output Voltage	150-1000Vdc
Output Current	200A max./connector
OCPD (Overcurrent Protection Device)	100A
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD
User Interface	
Display	7-inch touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Mechanical Buttons & Emergency Button
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Humidity	5% to 95% no condensation
Altitude	≤6561.28' (2000m) above sea level
Mechanical	
NEMA enclosure	Type 3R
IK Rating	IK10 (Screen is IK08)
Cooling	Forced Air
Charging Cable Length	14.8' (4.5m)
Dimensions (WxHxD)	2.46*2.46*1.25' (750*750*380mm)
Weight	Approx. 275.58 lb (125kg) (excluding power modules)
Installation	Wall mounting, Pole mounting (Pole is optional)
Certification and standards	
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, UL 1998, UL991
Certification	TUV, FCC, Energy Star

Titan V3 Gen.1



Main Features

- 150-1000Vdc wide output voltage range.
- Flexible configuration, high efficiency & maximum 300A output.
- User friendly Cable Management System for easier operation.
- Connect to any backend based on OCPP 1.6J protocol.
- Flexible payment modes, equipped with payment terminal.



Specifications

General Information	
Input Rating	480Vac±10%, 3 phases, 50/60Hz, L1+L2+L3+PE+N (Nuetral Optional)
Input Current Rating	AC 250A (AC 210A for 150kW output and AC 170A for 120kW output)
Power Factor	≥0.99 @ Full Load
Efficiency	95%
Output Interface	CCS1+CCS1
Output Power	180kW max.
Output Voltage	150-1000Vdc
Output Current	300A max./connector
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD
User Interface	
Display	10.4" touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency Button
User Authentication	RFID card, Payment Terminal (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693
Communication	
Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Environmental	
Operating Temperature	-22° F to 122° F (-30° C to 50° C) (Derating from 122° F/50° C)
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Humidity	5% to 95% no condensation
Altitude	≤6561.28' (2000m) above sea level
Mechanical	
NEMA Enclosure	Type 3R
IK Rating	IK10 (Screen is IK08)
Cooling	Forced Air
Noise Emission	≤65dBA @3.3' (full load)
Charging Cable Length	16.4' (5m) or 23' (7m) (optional)
Cable Management System	Trapezoidal Swing Arm version
Dimensions (WxHxD)	2.62 x 6.73 x 2.46' (800 x 2050 x 750mm) (excluding cable management)
Weight	Approx. 1040.6 lb (472kg) (excluding power modules)
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP
Certification	CSA, FCC, Energy Star, CTEP

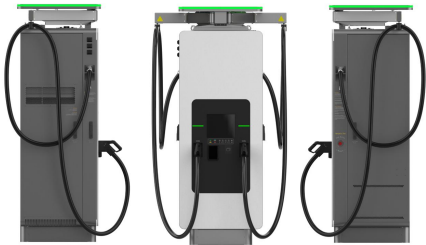
Note: Pictures are for reference only, please prevail in kind.

Titan V3 Gen.2



Main Features

- 150-1000Vdc wide output voltage range.
- Flexible configuration, high efficiency & maximum 500A output
- User friendly Cable Management System for easier operation.
- Connect to any backend based on OCPP 1.6J protocol.
- Flexible payment modes, equipped with payment terminal.



Specifications

General Information

Input Rating	480Vac±10%, 3 phases, 50/60Hz, L1+L2+L3+PE+N (Neutral Optional)		
Input Current Rating	AC 250A (AC 210A for 150kW output and AC 170A for 120kW output)		
Power Factor	≥0.99 @ Full Load		
Efficiency	≥97% @ Full Load		
Output Interface	CCS1+NACS	NACS+NACS	CCS1+CCS1
Output Power	180kW max.		
Output Voltage	150-1000Vdc		
Output Current	CCS1: 400A rating. NACS: 380A rating (All support 500A output for a short time)		
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD		

User Interface

Display	10.4" touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency Button
User Authentication	RFID card, App, Payment Terminal (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693

Communication

Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118

Environmental

Operating Temperature	-22° F to 122° F (-30° C to 50° C) (Derating from 122° F/50° C)
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Humidity	5% to 95% no condensation
Altitude	≤6561.28' (2000m) above sea level

Mechanical

NEMA Enclosure	Type 3R
IK Rating	IK10 (Screen is IK08)
Cooling	Forced Air
Noise Emission	≤65dBA @3.3' (5m) (full load)
Charging Cable Length	16.4' (5m) or 23' (7m) (optional)
Cable Management System	Trapezoidal Swing Arm version
Dimensions (WxHxD)	2.62 x 6.73 x 2.46' (800 x 2050 x 750mm) (excluding cable management)
Weight	Approx. 903.9 lb (410kg) (excluding power modules)
Installation	Ground mounting

Certification and Standards

Standards and Compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2
Certification	CSA, FCC, Energy Star, CTEP

Titan 320 AN



Main Features

- 150-1000Vdc wide output voltage range, compatible with most EV models in market.
- High performance, 97% efficiency & maximum 500A output.
- Flexible configuration, CCS1 and NACS available.
- User friendly Cable Management – easier operation. Light on the top(optional) for clearer indication.
- Connect to any backend based on OCPP protocol.
- Dynamic load management.



Specifications

General Information

Input Rating	480Vac $\pm$ 10%, 3 phases, 50/60Hz, L1+L2+L3+PE+N (Neutral Optional)
Input Current Rating	AC 401A
Power Factor	$\geq$ 0.98 @ Full Load
Efficiency	97%
Output Interface	CCS1+CCS1, NACS+CCS1, NACS+NACS (<i>simultaneous charging</i>)
Output Power	320kW max.(80kW as an increment)
Output Voltage	150-1000Vdc
Output Current	CCS1: 400A rating, NACS: 380A rating (All support 500A output for a short time)
OCPD (Overcurrent Protection Device)	500A
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD

User Interface

Display	10.4" touch screen
Support Language	English (Other languages available upon request)
Button and Switch	Emergency Button
User Authentication	RFID card, App, Payment Terminal (optional)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693

Communication

Network Interface	4G, Wi-Fi, Ethernet
Protocol (EVSE&Backend)	OCPP 1.6J
Protocol (EVSE&EV)	DIN 70121, ISO 15118

Environmental

Operating Temperature	-22° F to 122° F (-30° C to 50° C) (Derating from 122° F/50° C)
Storage Temperature	-40° F to 158° F (-40° C to 70° C)
Humidity	5% to 95% no condensation
Altitude	$\leq$ 6561.28' (2000m) above sea level

Mechanical

NEMA Enclosure	Type 3R
IK Rating	IK10 (Screen is IK08)
Cooling	Forced Air
Charging Cable Length	16.4' (5m) or 19.7' (6m) (optional)
Cable Management System (optional)	Swing Arm version
Operating Range with Cable Management System	5m (16.4') cable @ approx. 3m (9.8') operating range (cable will not touch ground) 6m (19.7') cable @ approx. 4m (13.1') operating range (0.3m (1') cable will be on ground)
Dimensions (WxHxD)	2.62*7.22*2.46' (800*2200*750mm) (with cable management system)
Weight	Approx. 1080 lb (490kg) (excluding power modules)*
Installation	Ground mounting

Certification and Standards

Standards and Compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP
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Main Features

- Max. 200A output current.
- Up to 200 kW output power per connector.
- 200-1000Vdc wide output voltage range.
- Great scalability, up to 4 charging points per system with control box.
- Support multiple cabinets connected together.



Specifications

User Unit		
Rendering		 Optional
Power Input	Auxiliary power supply: 85-264Vac, 50/60 Hz, L+N+PE	
Output Interface	1 x CCS1	
Output Power	200kW max.	
Output Voltage	150-1000Vdc	
Output Current	200A max. / connector	
Simultaneous Charging	N/A	
Display	N/A	10.4-inch touch screen
Support Language	English/French/German/Spanish/Vietnamese/Norwegian/Hebrew/Russian/Turkish/Portuguese/Hungarian/Czech/Slovak (Other languages available upon request)	
Button and Switch	ON/OFF Button for maintenance	Emergency Button
Authentication	Control box necessary - RFID, APP, Credit Card (PAX IM30 optional) (POS machine will support RFID card)	
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693, NFC, Mifare	
Network Interface	4G/Wi-Fi for backend connection and Ethernet for Power Cabinet local connection	
Protocol (EVSE&Backend)	OCPP 1.6J	
Protocol (EVSE&EV)	DIN 70121, ISO 15118	
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)	
Storage Temperature	-22° F to 158° F (-30° C to 70° C)	
Humidity	5%-95% no condensation	
Altitude	≤6561.28' (2000m) above sea level	
IP Rating	IP55 / NEMA 3R	
IK Rating	IK10 (Screen IK08)	
Cooling	Forced Air Cooling	
Charging Cable Length	16.4' (5m) or 32.8' (10m)	
Dimensions (WxHxD)	2.82*1.08*0.33' (860*329*101mm)	1.94*1.31*0.52' (591*399*159mm)
Weight	Approx. 110.23 lb (50kg)	Approx. 44.1 lb (20kg)
Installation	Wall-mounting	
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, UL 1998, UL991	
Certificate	TUV, FCC, OCA	

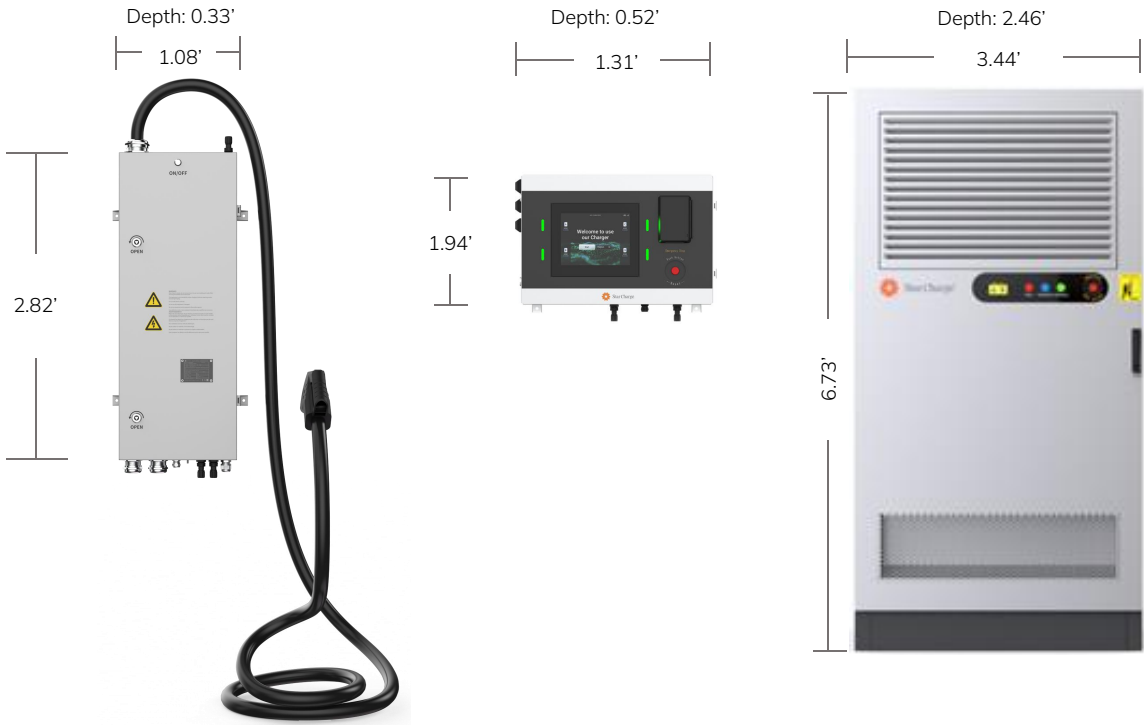
Note: Pictures are for reference only, please prevail in kind.



Power Cabinet	
Input Rating	480Vac ± 10%, 3 phases, 50/60Hz, L1+L2+L3+N+PE (Support without Neutral)
Input Current Rating	AC 307A
Power Factor	≥0.98 @ Full Load
Efficiency	95%
Output Power	240kW max. (180kW max. optional)
Output Voltage	150-1000Vdc
Output Current	500A max.
Output Channel	4 Channels max.
OCPD (Overcurrent Protection Device)	400A
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD
Button and Switch	Emergency Button
Network Interface	Ethernet to User Unit
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5%-95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10
Cooling	Forced Air
Dimensions (WxHxD)	3.44*6.73*2.46' (1050*2050*750mm)
Weight	Approx. 992.08 lb (450kg) (excluding power modules)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, UL 1998, UL991
Certificate	TUV, FCC, OCA



Dimensions



Note: Pictures are for reference only, please prevail in kind.

Neptune Natural Cooling Dispenser



Main Features

- Max. 200A output current.
- Up to 200 kW output power per connector.
- 150-1000Vdc wide output voltage range.
- Great scalability, up to 4 charging points per power cabinet.
- Support two cabinets connected in parallel.



Specifications

User Unit	
Rendering	
Output Interface	CCS1 + CCS1
Output Power	200kW max. / connector
Output Voltage	150-1000Vdc
Output Current	200A max. / connector
Simultaneous Charging	Yes
Display	10.4" touch screen
Support Language	English/French/Spanish (Other languages available upon request)
Button and Switch	Emergency Button
Authentication	RFID reader, APP (optional), Credit Card (optional, payment terminal is necessary)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693, NFC, Mifare
Network Interface	4G/Wi-Fi for backend connection and Ethernet for Power Cabinet local connection
Protocol (EVSE&Backend)	OCPP 1.6j, OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5%-95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10 (Screen IK08)
Cooling	Natural cooling
Charging Cable Length	16.4' (5m) (cable management system is optional)
Dimensions (WxHxD)	2.03 x 6.56 1.44' (619*2000*439mm) (without cable management system) 3.11 x 6.56 x 1.44' (938*2000*439mm) (with dual cable management system)
Weight	Approx. 507.06 lb (230kg) (with cable management system)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP, UL 1998, UL991
Certificate	TUV, FCC, Energy Star, CTEP, OCA

Neptune Natural Cooling Dispenser



Main Features

- Max. 300A output current.
- Up to 300 kW output power per connector.
- 150-1000Vdc wide output voltage range.
- Great scalability, up to 4 charging points per system.
- Support multiple cabinets connected together.



Specifications

User Unit	
Rendering	
Output Interface	2 x CCS1
Output Power	300kW max.
Output Voltage	150-1000Vdc
Output Current	300A max. / connector
Simultaneous Charging	Yes
Display	10.4" touch screen
Support Language	English/French/German/Spanish/Vietnamese/Norwegian/Hebrew/Russian/Turkish/Portuguese/Hungarian/Czech/Slovak (Other languages available upon request)
Button and Switch	Emergency Button
Authentication	RFID reader, APP (optional), Credit Card (optional, payment terminal is necessary) (POS machine will support RFID card)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693, NFC, Mifare
Network Interface	4G/Wi-Fi for backend connection and Ethernet for Power Cabinet local connection
Protocol (EVSE&Backend)	OCPP 1.6J, OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5%-95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10 (Screen IK08)
Cooling	Natural cooling
Charging Cable Length	16.4' (5m) (cable management system is optional)
Dimensions (WxHxD)	2.03 x 6.56 x 1.44' (619*2000*439mm) (without cable management system) 3.11 x 6.56 x 1.44' (938*2000*439mm) (with dual cable management system)
Weight	Approx. 507.06 lb (230kg) (with cable management system)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP, UL 1998, UL991
Certificate	TUV, FCC, Energy Star, CTEP, OCA

Note: Pictures are for reference only, please prevail in kind.

Neptune Natural Cooling Dispenser



Main Features

- Max. 400A output current.
- Up to 400 kW output power per connector.
- 150-1000Vdc wide output voltage range.
- Great scalability, up to 4 charging points per power cabinet.
- Support two cabinets connected in parallel.



Specifications

User Unit	
Rendering	
Output Interface	CCS1+CCS1, NACS+CCS1, NACS+NACS
Output Power	400kW max. / connector
Output Voltage	150-1000Vdc
Output Current	250A (400A max.) / connector
Simultaneous Charging	Yes
Display	10.4" touch screen
Support Language	English/French/Spanish (Other languages available upon request)
Button and Switch	Emergency Button
Authentication	RFID reader, APP (optional), Credit Card (optional, payment terminal is necessary)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693, NFC, Mifare
Network Interface	4G/Wi-Fi for backend connection and Ethernet for Power Cabinet local connection
Protocol (EVSE&Backend)	OCPP 1.6], OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5%-95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10 (Screen IK08)
Cooling	Natural cooling
Charging Cable Length	19.7' (6m)
Dimensions (WxHxD)	3.44 x 7.22 x 2.32' (1050*2200*707mm)
Weight	Approx. 507.06 lb (230kg)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP, UL 1998, UL991
Certificate	TUV, FCC, Energy Star, CTEP, OCA

Neptune Liquid Cooling Dispenser



Main Features

- Max. 600A output current.
- Up to 480 kW output power per connector.
- 150-1000Vdc wide output voltage range.
- Great scalability, up to 4 charging points per power cabinet.
- Support two cabinets connected in parallel.



Specifications

User Unit	
Rendering	
Output Interface	CCS1+CCS1, NACS+CCS1, NACS+NACS
Output Power	480kW max.
Output Voltage	150-1000Vdc
Output Current	500A (600A max.) / connector
Simultaneous Charging	Yes (400A max./connector simultaneous charging)
Display	10.4" touch screen
Support Language	English/French/Spanish (Other languages available upon request)
Button and Switch	Emergency Button
Authentication	RFID reader, APP (optional), Credit Card (optional, payment terminal is necessary)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693, NFC, Mifare
Network Interface	4G/Wi-Fi for backend connection and Ethernet for Power Cabinet local connection
Protocol (EVSE&Backend)	OCPP 1.6J, OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5%-95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10 (Screen IK08)
Cooling	Forced Air Cooling
Charging Cable Length	16.4' (5m)
Dimensions (WxHxD)	3.44 x 7.22 x 2.32' (1050*2200*707mm)
Weight	Approx. 573 lb (260kg)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP, UL 1998, UL991
Certificate	TUV, FCC, Energy Star, CTEP, OCA

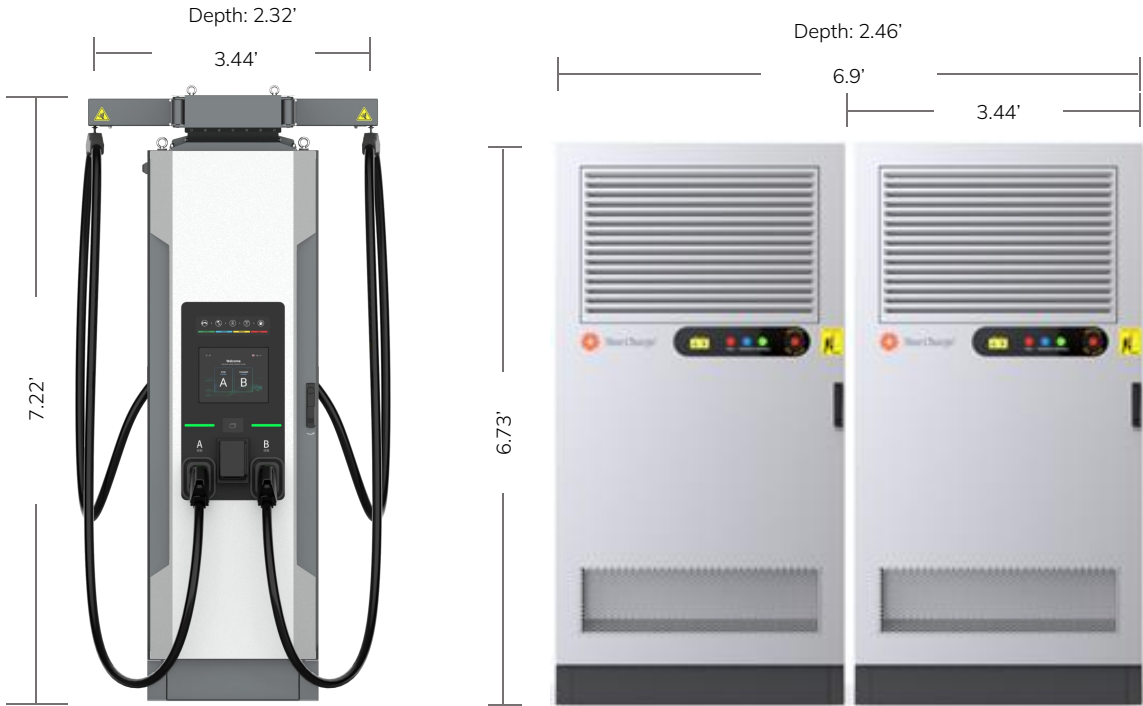
Neptune Power Cabinet



Power Cabinet	
Input Rating	480Vac±10%, 3 phases, 50/60Hz, L1+L2+L3+N+PE (Support without Neutral)
Input Current Rating	AC 307A
Power Factor	≥0.98 @ Full Load
Efficiency	95%
Output Power	240kW max. (480kW max. for 2 power cabinets in parallel)
Output Voltage	150-1000Vdc
Output Current	500A max.
Output Channel	4 Channels max. (8 channels max. for 2 power cabinet in parallel)
OCPD (Overcurrent Protection Device)	400A
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD
Button and Switch	Emergency Button
Network Interface	Ethernet to User Unit
Operating Temperature	-22° F to 131° F (-30° C to 55° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5% to 95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10
Cooling	Forced Air
Dimensions (WxHxD)	3.44*6.73*2.46' (1050*2050*750mm)
Weight	Approx. 992.08 lb (450kg) (excluding power modules)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, Energy Star, CTEP UL 1998, UL991
Certificate	TUV, FCC, Energy Star, CTEP, OCA



Dimensions



Note: Pictures are for reference only, please prevail in kind.

Nova 720 (Available in 2025 Q2)



Main Features

- Max. 600A output current.
- Up to 600 kW output power per connector.
- 150-1000Vdc wide output voltage range.
- Great scalability, up to 12 charging points per system.
- AC meter at input for better charging station management.



Specifications

User Unit	
Rendering	
Output Interface	CCS1+CCS1, NACS+CCS1, NACS+NACS
Output Power	720kW max.
Output Voltage	150-1000Vdc
Output Current	CCS1: 400A (600A max.) NACS: 380A (600A max.)
Simultaneous Charging	Yes
Display	7" touch screen
Support Language	English/French/Spanish (Other languages available upon request)
Button and Switch	Emergency Button
Authentication	RFID reader, APP (optional), Credit Card (optional, payment terminal is necessary)
RFID Reader	ISO/IEC 14443 A/B, ISO/IEC 18092, IEC/ISO 15693, NFC, Mifare
Network Interface	4G/Wi-Fi for backend connection and Ethernet for Power Cabinet local connection
Protocol (EVSE&Backend)	OCPP 1.6J, OCPP 2.0 (ongoing)
Protocol (EVSE&EV)	DIN 70121, ISO 15118
Operating Temperature	-22° F to 122° F (-30° C to 50° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5%-95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10 (Screen IK08)
Cooling	Forced Air Cooling
Charging Cable Length	19.7' (6m)
Dimensions (WxHxD)	1.26'*6.89'*1.18' (385 *2100*360 mm with cable management system)
Weight	200 kg (440.92 lb)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, UL 1998, UL991
Certificate	TUV, FCC, Energy Star, CTEP, OCA (ongoing)

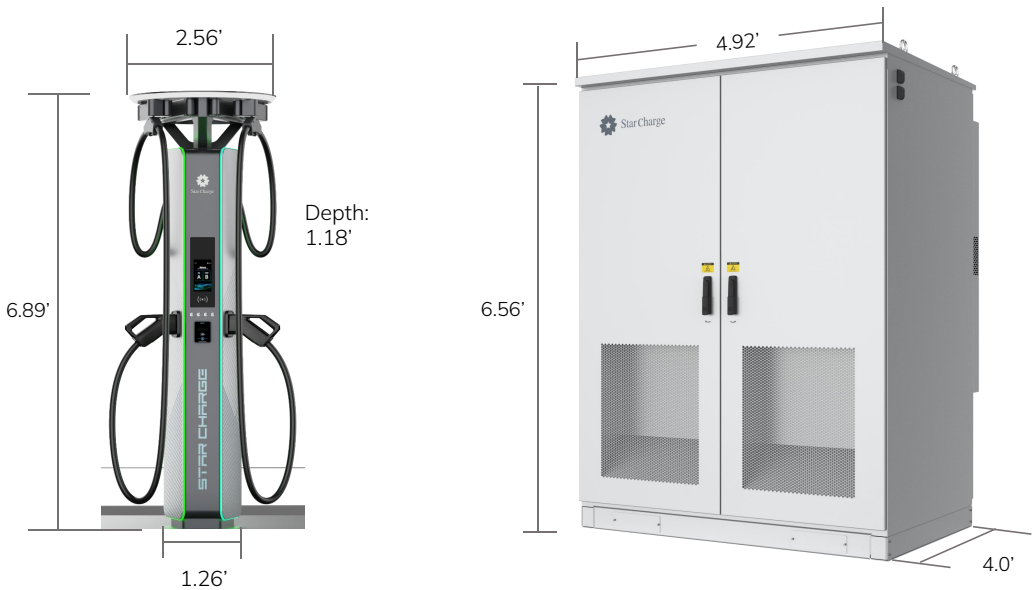
* Value will be updated after testing.

Nova 720 (Available in 2025 Q2)



Power Cabinet	
Input Rating	480Vac±10%, 3 phases, 50/60Hz, L1+L2+L3+N+PE (Support without Neutral)
Input Current Rating	AC 902A
Power Factor	*≥0.99 @ full Load
Peak Efficiency	*≥97%
Output Power	720kW max. (640kW max. optional)
Output Voltage	150-1000Vdc
Output Current	600A max. per channel
Output Channel	12 Channels
OCPD	1200A
System Protection	Overload, Overvoltage, Undervoltage, Overcurrent, Short circuit, Over temperature, Ground fault, Integrated surge protection, IMD
Button and Switch	Emergency Button
Network Interface	4G, Wifi, Ethernet
Operating Temperature	-22° F to 122° F (-30° C to 50° C) (Derating from 122° F/50° C)
Storage Temperature	-22° F to 158° F (-30° C to 70° C)
Humidity	5% to 95% no condensation
Altitude	≤6561.28' (2000m) above sea level
IP Rating	IP55 / NEMA 3R
IK Rating	IK10
Cooling	Forced Air
Dimensions (WxHxD)	4.92'*6.56'*4.0' (1500*2000*1220 mm)
Weight	Power cabinet: Approx. 944 kg (2087.4 lb) Each power module: Approx. 17kg (37.48 lb)
Installation	Ground mounting
Standards and compliance	FCC part 15 Class A, UL 2202, UL 2231-1, UL 2231-2, UL 1998, UL991
Certificate	TUV, FCC, Energy Star, CTEP, OCA (ongoing)

Dimensions



* Value will be updated after testing.

Note: Pictures are for reference only, please prevail in kind.



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