Satellite DC Charger

Flexibility Output Power: Easily scale to 960 kW with 2 480 kW cabinets in series

- 6-12 pcs 40kW power modules per Power Unit cabinet
- One Power Unit can support up to 6 single air-cooling dispensers simultaneously
- Two single dispensers can be combined into a dual dispenser
- Any two or three single air-cooling dispensers can be combined into one liquid-cooling dispenser for enhanced performance

Flexible expansion with additional power modules for installment investment

- Start with a minimum power unit and gradually expand by adding modules before increasing the number of units
- Each power unit can have a variable number of power modules and dispensers
- Reserve space and wiring during installation to facilitate future power unit and dispenser expansion with minimal effort

Eco-friendly with Solar & Battery systems

- Dynamic pricing strategy support
- Storing energy for use and keep devices running without interruption
- Flexible power expansion with ESS and Solar
- Intelligent energy management system

Secure Encrypted Communication (TLS Mutual Authentication)

- The system implements fully encrypted communication based on TLS (Transport Layer Security), ensuring all transmitted data is protected against leakage and tampering. It supports ‘mutual authentication’, verifying both communication parties to guarantee a trusted, end-to-end secure connection.

2026.3.27 V1.4

Smart Priority Charging

Level 1, Temporary Control Mode

Applied during special operational needs such as demand response events, peak-time load management, or grid emergencies, where charging power may be reduced or redistributed.

Level 2, Guest / Unregistered Users

Non-registered users have the lowest regular priority, but are guaranteed a minimum charging power to complete their charging needs.

Level 3, Registered Standard Users

Regular registered users have higher priority than unregistered users, ensuring better charging performance in most cases.

Level 4, VIP Members (High Priority without Boost)

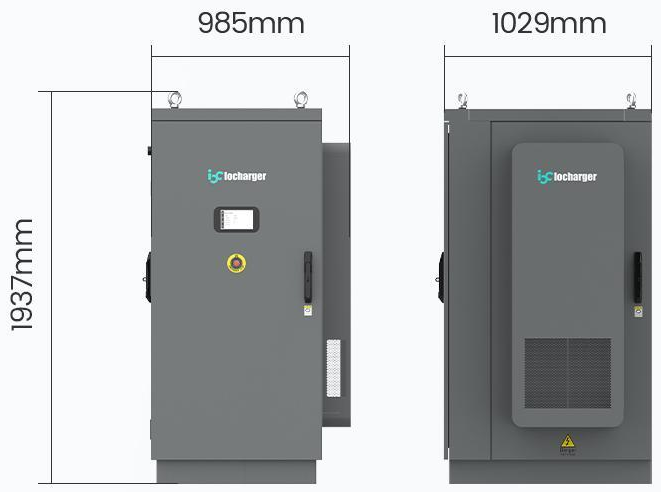
VIP users receive high charging priority even without a boost purchase, typically ahead of standard registered users.

Level 5, Boost Access (Temporary Paid Priority)

Users who temporarily pay for a boost get the highest charging priority, ensuring maximum available power allocation during their session.

Scenario 1	800/960kW			400kW	400kW
				Registered	Guest
Scenario 2	960/960kW		400kW	360kW	200kW
			VIP	Registered	Guest
Scenario 3	960/960kW	400kW	280kW	200kW	80kW
		Boost	VIP	Registered	Guest
Scenario 4	960/960kW	400kW	320kW	240kW	
		Boost	VIP	Registered	Leaving...

Power Cabinet

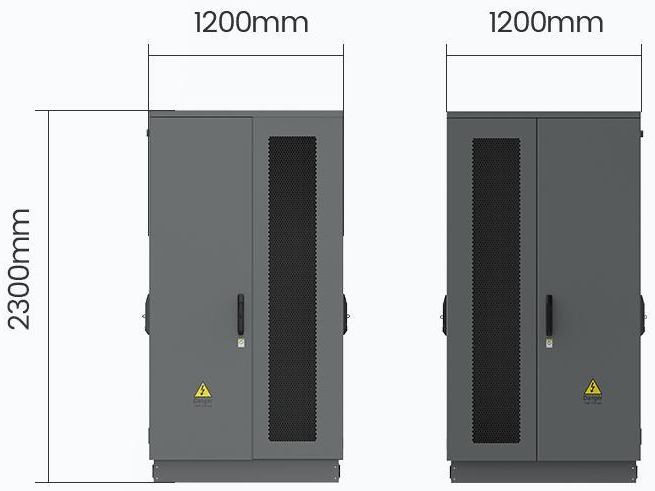


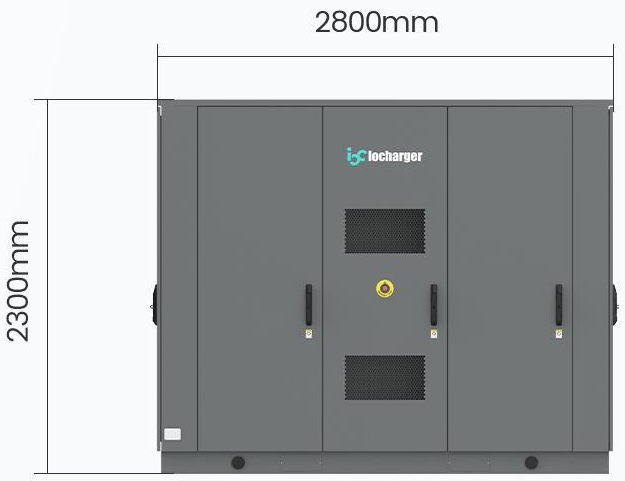
Specification

Specifications are subject to change without notice.

AC Input	**480kW (Air Cooling)**	**960kW (Air Cooling)**
Earthing system	3P, PE, N	3P, PE, N
Input voltage	3-phase 400VAC ±15% (2 Routes)	3-phase 400VAC ±15% (4 Routes)
Input frequency	50/60Hz	50/60Hz
Power factor	≥0.98	≥0.98
Harmonic distortion (THDi)	＜5%	＜5%
General Characteristics	**480kW (Air cooling)**	**960kW (Air cooling)**
Number of outputs (Max.)	6	12
Minimum adjustable power	40kW	40kW
Connectivity	4G, Ethernet	4G, Ethernet
Peak efficiency	≥95%	≥95%
Enclosure rating	IP55	IP55
Operating altitude	≤2000m	≤2000m
Operating temperature range	-30℃ ~ +55℃	-30℃ ~ +55℃
Storage temperature range	-30℃ ~ +80℃	-30℃ ~ +80℃
Mounting	Floor Standing	Floor Standing
Dimensions (H×W×D)mm	1937 x 1029 x 985	1937 x 2058 x 985
Shipping weight	854kg	1703kg
Certification and Standards	**480kW (Air cooling)**	**960kW (Air cooling)**
Safety standards	EN IEC 61851-1 EN IEC 61851-23	EN IEC 61851-1 EN IEC 61851-23
Certification	EN 61000-6 Series EN IEC 61851-21-2 EN 301 489-1/-52 EN 301908-1/-13 EN 62311 LTE 8 Band	EN 61000-6 Series EN IEC 61851-21-2 EN 301 489-1/-52 EN 301908-1/-13 EN 62311 LTE 8 Band

Power Cabinet





Specification

Specifications are subject to change without notice.

AC Input	**1600kW (Air Cooling)**
Earthing system	3P, PE, N
Input voltage	3-phase 400VAC ±15% (4 Routes)
Input frequency	50/60Hz
Power factor	≥0.98
Harmonic distortion (THDi)	<5%
General Characteristics	**1600kW (Air cooling)**
Power Module	40kW Independent airduct cooling power module
Number of outputs (Max.)	20
Minimum adjustable power	80kW
Connectivity	4G, Ethernet
Peak efficiency	≥95%
Enclosure rating	IP55, IK10
Operating altitude	≤2000m
Operating temperature range	-30℃ ~ +55℃
Storage temperature range	-30℃ ~ +80℃
Mounting	Floor Standing
Dimensions (H×W×D)mm	2300 x 2800 x 1200
Shipping weight	3427kg
Certification and Standards	**1600kW (Air cooling)**
Safety standards	EN IEC 61851-1 EN IEC 61851-23
Certification	EN 61000-6 Series EN IEC 61851-21-2 EN 301 489-1/-52 EN 301908-1/-13 EN 62311 LTE 8 Band

1600kW High-Power Integrated Matrix

Featuring an industry-leading 1600kW single-chassis integrated design, our system eliminates the efficiency loss of traditional fragmented units. As the "Super Energy Heart" of the station, it delivers extreme power density for heavy-duty trucking, mega-hubs, and highway corridors.

Independent Air-duct Cooling & Maintenance-Free

Equipped with IP65-rated independent air-duct modules, ensuring total physical isolation between core electronics and cooling airflow. This effectively eliminates erosion from dust, salt spray, and humidity, doubling the system lifespan and reducing on-site maintenance to near zero.

Smart 5-Level Priority Power Allocation

Proprietary algorithm-driven 5-level prioritization. From grid-demand response to paid "Boost" access, operators can monetize power like a premium commodity, assigning higher priorities to VIPs to maximize ROI.

- Level 1, Temporary Control Mode
  Applied during special operational needs such as demand response events, peak-time load management, or grid emergencies, where charging power may be reduced or redistributed.

- Level 2, Guest / Unregistered Users
  Non-registered users have the lowest regular priority, but are guaranteed a minimum charging power to complete their charging needs.

- Level 3, Registered Standard Users
  Regular registered users have higher priority than unregistered users, ensuring better charging performance in most cases.

- Level 4, VIP Members (High Priority without Boost)
  VIP users receive high charging priority even without a boost purchase, typically ahead of standard registered users.

- Level 5, Boost Access (Temporary Paid Priority)
  Users who temporarily pay for a boost get the highest charging priority, ensuring maximum available power allocation during their session

Flexible Terminal Configurations

Charging terminals support various specifications: 250A, 400A, 500A, 600A, and 1000A. Operators can flexibly mix and match these based on vehicle types to achieve the perfect balance between asset utilization and charging efficiency.

Functionality & Scalability via MQTT

Replacing legacy low-speed CAN-bus with the MQTT protocol. Its lightweight, high-bandwidth nature enables millisecond-level data sync, significantly enhancing real-time monitoring and providing limitless scalability for EMS and cloud platform integration.

Banking-Grade Security with TLS

The system implements end-to-end encrypted communication based on TLS 1.3 with Mutual Authentication, ensuring that charging commands, user privacy, and transaction data are immune to tampering or eavesdropping in any network environment.

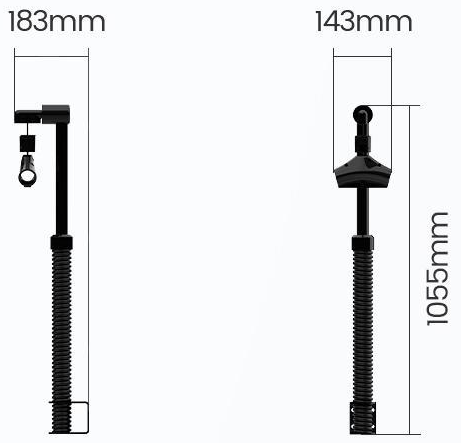
Standard Compliance: ISO 15118-20

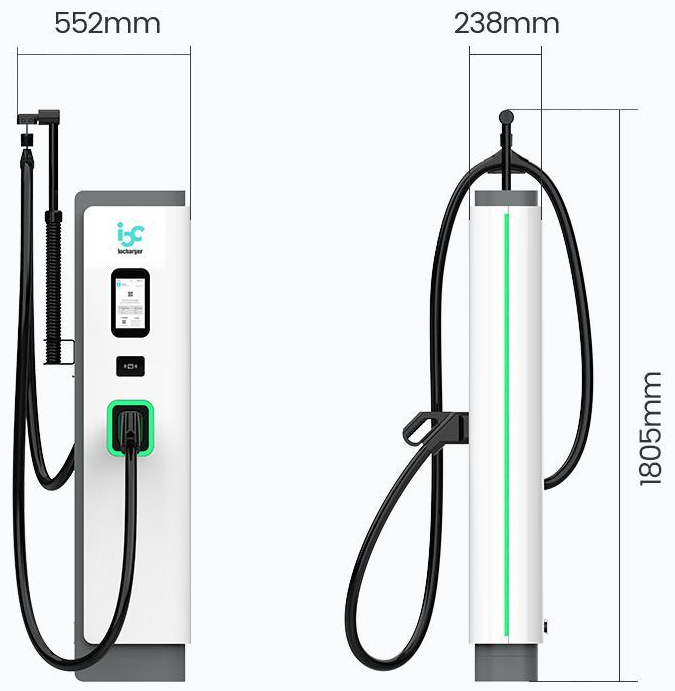
Fully compliant with OCPP 2.0.1 and the cutting-edge ISO15118-20 standard. Supporting Plug&Charge, it ensures seamless, long-term interoperability with global leading EV brands and next-generation models.

Terminal-Wide Proactive Safety Protection

The dispenser features a proactive safety array with high-precision thermal sensors embedded from the connector to the terminals. Combined with millisecond-level shut-off capability, it ensures absolute safety for vehicles and users during high-power sessions.

Air Cooling Dispenser



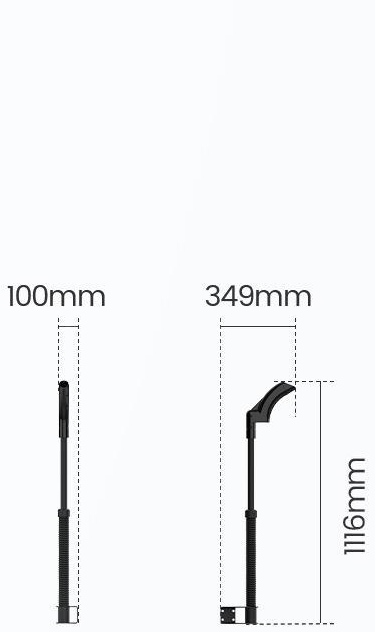


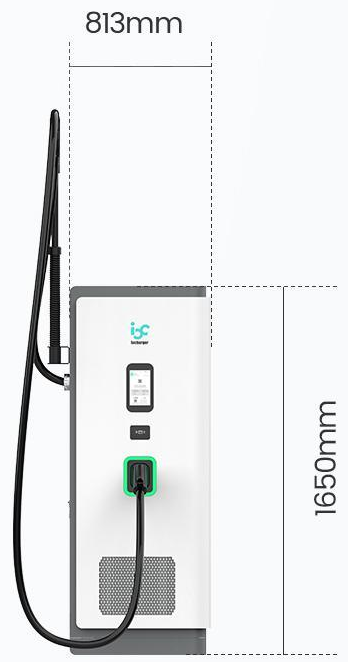
Specification

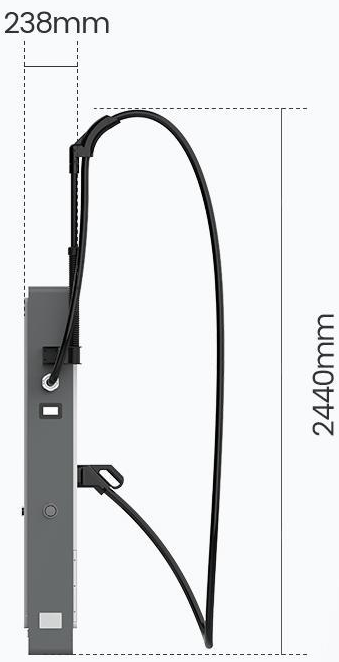
Specifications are subject to change without notice.

DC Output Connection	Air Cooling Dispenser
Charging mode	Mode 4: CCS2
Output power	400kW, 375kW, 250kW (Optional)
Output voltage	150-1000V
Output current	CCS2 250A/ 375A/ 400A, CCS1 200A/ 300A
Charging interface	**CCS2, or CCS1, or GB/T, or CHAdeMO**
General Characteristics	**400kW, 375kW, 250kW (Air cooling) (Optional)**
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30℃ ~ +55℃
Storage temperature range	-30℃ ~ +80℃
Mounting	Floor Standing
Dimensions (H×W×D)mm	1805 x 552 x 238 (With CMS)
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED/LCD/APP
User interface	iocharger APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118 (PnC & EIM), DIN70121
User authentification	APP, RFID card, QR code, Credit Card (Optional)
Software Update	OTA updates via web portal
Shipping weight	120kg(CCS2 250A 5m), 127kg(CCS2 400A 5m)
Safety standards	**EN IEC 61851-1, EN IEC 61851-23**
Certifications	EN 61000-6 Series, EN IEC 61851-21-2, EN 301 489-1/-3, EN 300 330, EN 62479 RFID

Liquid Cooling Dispenser





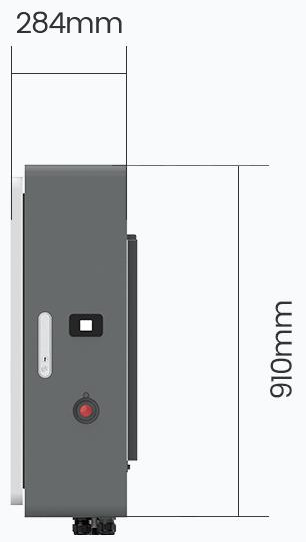


Specification

Specifications are subject to change without notice.

DC Output Connection	**Liquid Cooling Dispenser**
Charging mode	Mode 4: CCS2
Output power	500kW（Max 600kW）
Output voltage	150-1000V
Output current	CCS2 500A（Max. 600A）
Charging interface	**CCS2**
General Characteristics	**500kW (Liquid cooling)**
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30℃ ~ +55℃
Storage temperature range	-30℃ ~ +80℃
Mounting	Floor Standing
Dimensions（H×W×D)mm	1650 x 813 x 238（Without CMS）
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED/LCD/APP
User interface	iocharger APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118（PnC & EIM), DIN70121
User authentification	APP, RFID card, QR code, Credit Card（Optional）
Software Update	OTA updates via web portal
Shipping weight	158kg
Safety standards	**EN IEC 61851-1, EN IEC 61851-23**
Certifications	EN 61000-6 Series, EN IEC 61851-21-2, EN 301 489-1/-3, EN 300 330, EN 62479 RFID

Air Cooling Wall-mounted Dispenser



Specification

Specifications are subject to change without notice.

DC Output Connection	**Air Cooling Dispenser**
Charging mode	Mode 4: CCS2
Output power	400kW, 375kW, 250kW (Optional)
Output voltage	150-1000V
Output current	CCS2 250A/ 375A/ 400A, CCS1 200A/ 300A
Charging interface	**CCS2, or CCS1, or GB/T, or CHAdeMO**
General Characteristics	**400kW, 375kW, 250kW (Air cooling) (Optional)**
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30℃ ~ +55℃
Storage temperature range	-30℃ ~ +80℃
Mounting	Wall-mounted
Dimensions (H×W×D)mm	910 x 558 x 284
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED/LCD/APP
User interface	iocharger APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118 (PnC & EIM), DIN70121
User authentification	APP, RFID card, QR code
Software Update	OTA updates via web portal
Safety standards	**EN IEC 61851-1, EN IEC 61851-23**
Certifications	EN 61000-6 Series, EN IEC 61851-21-2, EN 301 489-1/-3, EN 300 330, EN 62479 RFID

Air Cooling Dual Dispenser

Specification

Specifications are subject to change without notice.

DC Output Connection	**Air Cooling Dual Dispenser**
Charging mode	Mode 4: CCS2
Output1 power	400kW, 375kW, 250kW (Optional)+400kW, 375kW, 250kW (Optional)
Output1 voltage	150-1000V
Output1 current	CCS2 250A/ 375A/ 400A, CCS1 200A/ 300A
Output2 power	400kW, 375kW, 250kW (Optional)
Output2 voltage	150-1000V
Output2 current	CCS2 400A , 375A, 250A (Optional)
Charging interface	**2*CCS2, 1*CCS2+1*GB/T, or 1*CCS2+1*CHAdeMO**
General Characteristics	**400kW+400kW (Air cooling) (Optional)**
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30℃ ~ +55℃
Storage temperature range	-30℃ ~ +80℃
Mounting	Floor Standing
Dimensions (H×W×D)mm	2200 x 415 x 780
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED/LCD/APP
User interface	iocharger APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118 (PnC & EIM), DIN70121
User authentification	APP, RFID card, QR code, Credit Card (Optional)
Software Update	OTA updates via web portal
Safety standards	**EN IEC 61851-1, EN IEC 61851-23**
Certifications	EN 61000-6 Series, EN IEC 61851-21-2, EN 301 489-1/-3, EN 300 330, EN 62479 RFID