

OCULAR

Satellite DC Charger



Scalable Output Power

The Satellite DC Charger offers scalable performance from 240 kW to 1600 kW through the use of 40 kW power modules. Its modular cabinet design enables support for multiple satellite units simultaneously, which can be configured as single or dual dispensers, with optional liquid-cooled systems to meet specific site requirements.

Flexible Terminal Configurations

Dispensers are available in 250 A, 300 A, 400 A, 500 A, and 600 A ratings. Mix and match terminal types across a site to match your vehicle fleet and optimise charger utilisation.

Independent Air-Duct Cooling

Each power module uses an IP65-rated independent air-duct cooling system, physically isolating electronics from airflow. This protects against dust, salt spray, and humidity — extending service life and reducing maintenance requirements.

Standards Compliance

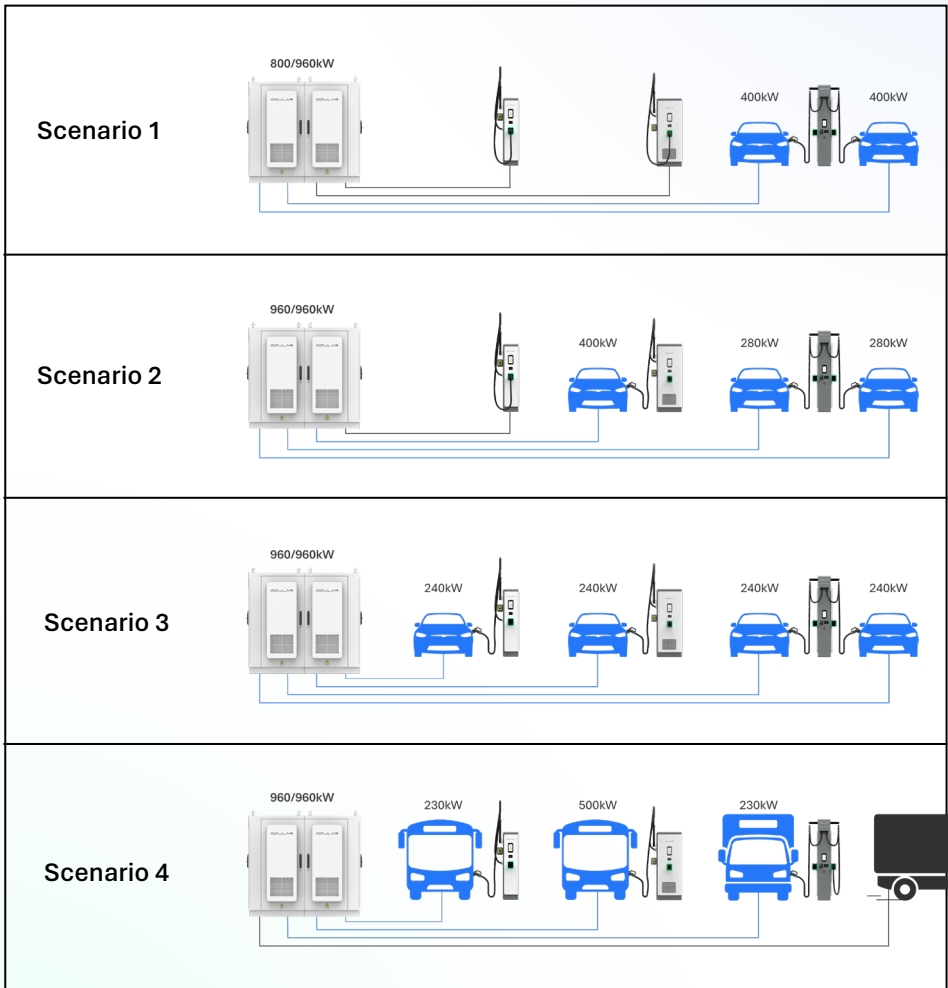
Fully compliant with OCPP 1.6J, OCPP 2.0.1, and ISO 15118-20, including Plug & Charge (PnC).

Cable Management

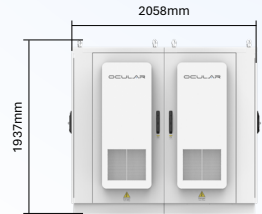
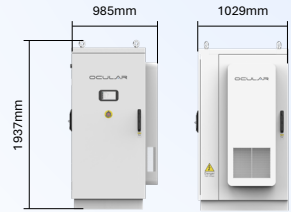
Two cable management options are available: a robust system with extended reach for ease of use, and a shorter configuration suited to underground car parks and height-restricted environments.

SMART PRIORITY CHARGING

The Ocular Satellite DC charger load control system uses a central base unit to house and manage all available DC power, which is then intelligently distributed to multiple satellite chargers. Rather than requiring each charger to have its own full power infrastructure, the system allocates power dynamically based on demand, delivering more to vehicles that are actively charging and automatically shifting that capacity as sessions finish. This maximizes the use of available power, reduces wasted capacity, and lowers deployment costs while providing a flexible and efficient charging network.



Power Cabinet

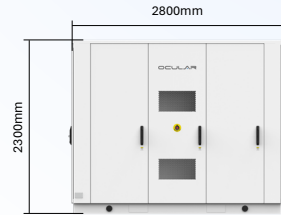
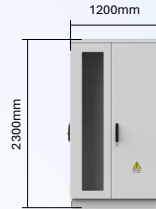


SPECIFICATIONS

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		
Number of outputs (Max.)	12 <small>(Please confirm with Ocular engineers, as this may vary depending on the satellite and configuration used)</small>	24 <small>(Please confirm with Ocular engineers, as this may vary depending on the satellite and configuration used)</small>
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°C~ +55°C	-30°C~ +55°C
Storage temperature range	-30°C~ +80°C	-30°C~ +80°C
Mounting	Floor Standing	Floor Standing
Dimensions (HxWxD)mm	1937 x 1029 x 985	1937 x 2058 x 985
Certification and Standards		
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

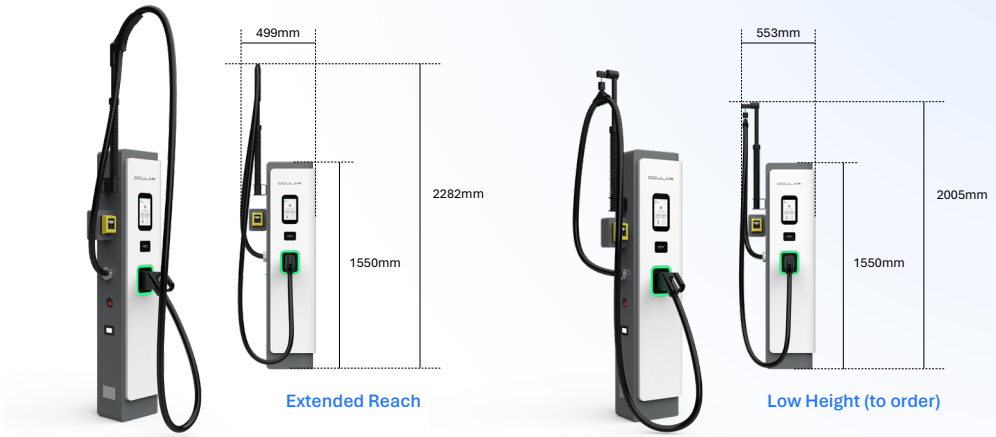


SPECIFICATIONS

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AC Input	1600kW (Air Cooling)
Earthing system	3P, PE, N
Input voltage	3-phase 400VAC $\pm 15\%$ (4 Routes)
Input frequency	50/60Hz
Power factor	≥ 0.98
Harmonic distortion (THDI)	$< 5\%$
General Characteristics	
Power Module	40kW Independent airduct cooling power module
Number of outputs (Max.)	20 <small>(Please confirm with Ocular engineers, as this may vary depending on the satellite and configuration used)</small>
Minimum adjustable power	80kW
Connectivity	4G, Ethernet
Peak efficiency	$\geq 95\%$
Enclosure rating	IP55, IK10
Operating altitude	$\leq 2000\text{m}$
Operating temperature range	$-30^{\circ}\text{C} \sim +55^{\circ}\text{C}$
Storage temperature range	$-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Mounting	Floor Standing
Dimensions (HxWxD)mm	2300 x 2800 x 1200
Certification and Standards	
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

Air Cooling Dispenser

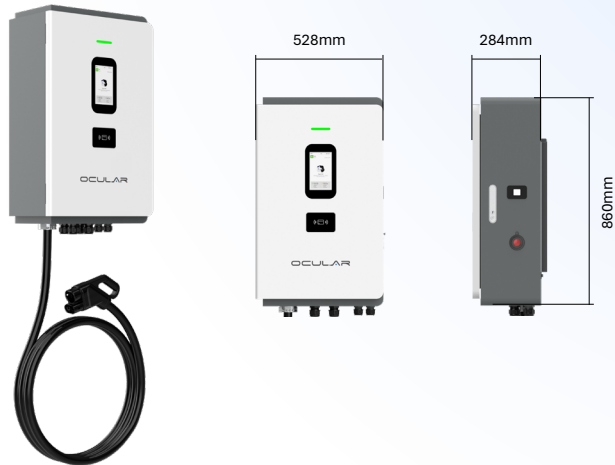


SPECIFICATIONS

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DC Output Connection	
Charging mode	Mode 4: CCS2
Output power	250kW, 300kW, 375kW, 400kW
Output voltage	150-1000V
Output current	CCS2 250A / 300A / 375A / 400A
Charging interface	CCS2, or CCS1, or GB/T, or CHAdeMO
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30°C~ +55°C
Storage temperature range	-30°C~ +80°C
Mounting	Floor Standing
Dimensions (HxWxD) mm	2282 x 499 x 238 2005 x 553 x 238
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED / LCD / APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118 (PnC & EIM), DIN70121
User Authentication	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

Air Cooling Wall-Mounted Dispenser

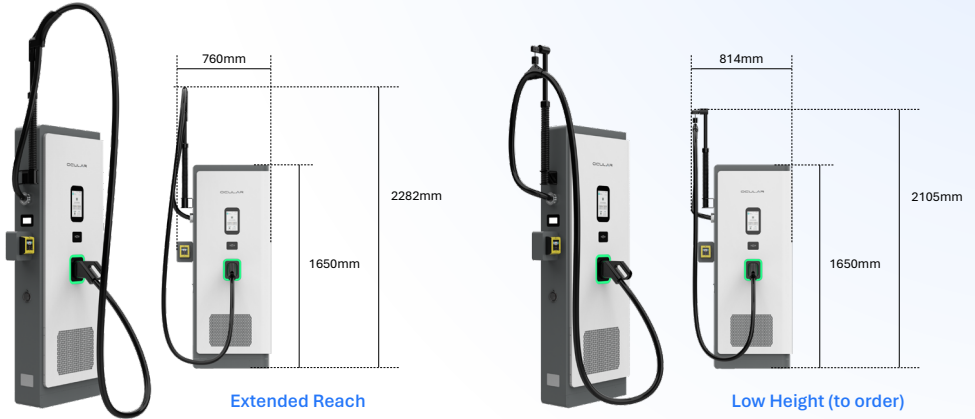


SPECIFICATIONS

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DC Output Connection	
Charging mode	Mode 4: CCS2
Output power	250kW, 300kW, 375kW, 400kW
Output voltage	150-1000V
Output current	CCS2 250A / 300A / 375A / 400A
Charging interface	CCS2, or CCS1, or GB/T, or CHAdeMO
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30°C~ +55°C
Storage temperature range	-30°C~ +80°C
Mounting	Wall-mounted
Dimensions (HxWxD) mm	860 x 528 x 284 (With CMS)
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED / LCD / APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118 (PnC & EIM), DIN70121
User Authentication	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

Liquid Cooling Dispenser

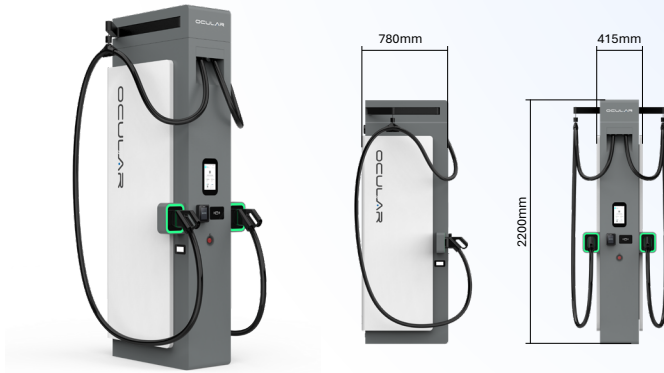


SPECIFICATIONS

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DC Output Connection	
Charging mode	Mode 4: CCS2
Output power	500kW (Max 600kW)
Output voltage	150-1000V
Output current	CCS2 500A (Max. 600A)
Charging interface	CCS2
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30°C~ +55°C
Storage temperature range	-30°C~ +80°C
Mounting	Floor Standing
Dimensions (HxWxD) mm	2282 x 760 x 238 2282 x 814 x 238
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED / LCD / APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118 (PnC & EIM), DIN70121
User Authentication	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 62479 RFID

Air Cooling Dual Dispenser



SPECIFICATIONS

Specifications are subject to change without notice.

DC Output Connection	
Charging mode	Mode 4: CCS2
Output 1 power	250kW, 300kW, 375kW, 400kW + 250kW, 300kW, 375kW, 400kW
Output 1 voltage	150-1000V
Output 1 current	CCS2 250A / 300A / 375A / 400A
Output 2 power	250kW, 300kW, 375kW, 400kW
Output 2 voltage	150-1000V
Output 2 current	CCS2 250A / 300A / 375A / 400A
Charging interface	2*CCS2 as standard - CCS1, GB/T or CHAdeMo to order
General Characteristics	400kW+400kW (Air cooling) (Optional)
Enclosure rating	IP55
Operating altitude	≤2000m
Operating temperature range	-30°C~ +55°C
Storage temperature range	-30°C~ +80°C
Mounting	Floor Standing
Dimensions (HxWxD) mm	2200 x 415 x 780
Screen type	7 inch LCD Touch Screen
Cable length	5m
Status indication	LED / LCD / APP
Connectivity	Ethernet
Protocols	OCPP 1.6J & OCPP 2.0.1 Full support, GB/T 27930, CHAdeMO 2.0, ISO15118 (PnC & EIM), DIN70121
User Authentication	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 62479 RFID

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SATELLITE
DC CHARGER

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