



**ORION DC**  
**60kW, 120kW & 160kW**



**MC CHARGERS**

"Your Journey, Our Commitment."



# ORION DC 60kW, 120kW & 160kW

## Three-phase DC public charging station

- PTB Certified Meter
- MID Meter
- SPD Type 2
- RCD
- 7" LCD Touchscreen
- WiFi, Ethernet, GSM
- OCPP 1.6JSON
- RFID
- Dynamic Load Management (DC)
- Remote Firmware Updates

<b>Charging Output:</b>	2 DC & 1 AC (optional)
<b>Max. Output Power:</b>	60kW or 120kW or 160kW
<b>Display:</b>	7" LCD touchscreen
<b>Installation:</b>	Ground mounted
<b>Network Connection:</b>	Ethernet, WiFi, 3G, 4G or GSM
<b>Communication Protocol:</b>	OCPP 2.0.1

### Main Characteristics

- The charging station has two (2) DC CCS2 outputs.
- It can charge maximum three cars simultaneously, two at the DC outputs and one in the AC output.
- DC power is balanced between the two DC outputs.
- Supports Dynamic Load Balancing function for better utilization.
- 95,49% power efficiency & >99% power factor.

### Advantage

- 1 x CCS2 + 1 X CHAdeMO or 2 x CCS2 charging outputs.
- Capability to add AC Type 2 charging output of 22kW .
- Dynamic Load Management – Dynamic Load Management to avoid grid overload and improve energy efficiency in the installation.
- EMC Class B .
- Upgradable – Can be extended to higher output power (ex.60kW up to 160kW).
- Emergency Button built in .
- Payment Methods – RFID/QR code/Credit or Debit card option .
- Noise Level – 55/60/65dB (adjustable fan speed to lower the noise level).



## Technical Specifications

		ORION DC 60kW	ORION DC 120kW	ORION DC 160kW
<b>Input Characteristics</b>	Input Voltage	400+/-10% (360-440 Vac)		
	DC Input Current	96A max – 60kW	188A max – 120kW	270A max – 168kW
	AC Input Current	32A max – 22kW		
	Power Factor	≥0.99 (load 100%), ≥ 0.98 (load 50% – 100%)		
	Power Efficiency	≥95.49		
	THDi	≤5% 400VAC input Load ≥50%		
<b>Output Characteristics</b>	Outputs	2x DC-CCS2 + (optional 1 x AC-Type 2) (Mode 4, IEC61851-23; IEC61851-24, IEC62196-3) (Mode 3, IEC61851-1), (2x DC CCS2 or 1x DC-CCS2 + 1x CHAdeMO) + 1 x AC Type2 (Mode 4, IEC61851-23; IEC61851-24; IEC62196-3, JEVS G104) (Mode 3, IEC61851-1)		
	DC Voltage Output	CCS2 150-1000 VDC   CHAdeMO 150-500 VDC		
	DC Output Current	0-200A DC CCS2   0-125A DC   CHAdeMO 150-500 VDC		
	DC Power	60kW	120kW	160kW
	AC Voltage Output	400V AC		
	AC Output Current	32A AC (max) - 22kW		
	AC Power	22kW (max)		
<b>Operating Conditions</b>	Installation Altitude	<2000m		
	Operating Temperature	-30°C - +70°C (derating of power above +50°C)		
	Storage Temperature	-40°C ~ +75°C		
	Humidity	5% - 95% RH (no condensation)		
	MTBF	100.000 hours		
	UV	UV protection		
<b>Construction</b>	Enclosure	Galvanized sheet metal		
	IP Protection	IP54		
	Display	7" LCD touch screen & LED		
	Weight	360kg (including tethered cables)	380kg (including tethered cables)	460kg (including tethered cables)
	Dimensions	770x885x1886mm (width x height x depth)		
	Cable Length	5m		
	Cooling	Forced Air Cooling		
<b>Electronic Parts</b>	Protective Devices	Overvoltage Protection (OVC), Undervoltage Protection (UVC), Short Circuit and Overcurrent Protection, Residual Current Protection RCD Type A & B, Surge Protection Device SPD Type 2, Ground Loss Detection, Overtemperature Protection		
	DC Energy Meter	2 x DC Energy Meter		
	AC Energy Meter	MID certified energy meter		
<b>User Interface &amp; Control</b>	Language Menu	English		
	User Identification	ISO/IEC14443 Type A & MIFARE RFID card		
	Emergency Button	Emergency Stop Button (cuts off the power supply)		
<b>Communication</b>	Connectivity	Ethernet, WiFi, 4G		
	Communication Protocol	OCPP1.6J (OCPP2.0 upgradable)		
<b>Warranty</b>	Declaration of Conformity	CE		
	EN Regulations	EN/IEC61851-1, EN/IEC61851-23, EN/IEC61851-24, EN/IEC61000, EN/IEC62196-3, EN/IEC62196-2, DIN70121		



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Official Distributor: