

		OD-07CS & OD-07CG	OD-22CS & OD-22CG
AC Input Characteristics	AC Input Voltage	230V AC $\pm$ 10%	400V AC $\pm$ 10%
	Input Type	1P + N + PE	3P + N + PE
	AC Input Current	32A	32A / phase
	Frequency	50/60Hz	
AC Output Characteristics	AC Voltage Output	220V AC	400V AC
	Power	7 kW max	22 kW max
	AC Output current	32 A	32 A / phase
Operating Conditions	Operating Temperature	-25° C - +60° C	
	Storage Temperature	-30° C - +70° C	
	Humidity	5% - 95% RH (no condensation)	
	Installation Alltitude	Up to 2000m	
Construction	Enclosure	Steel, Polycarbonate	
	IP Protection	IP54	
	Mechanical Impact IK	IK10	
	Charging Mode	Mode 3	
	Outputs	Built in 5m length tethered cable with Type 2 output or Socket Type 2	
	Charger Dimensions	265x385x143 mm (width x height x depth)	
	Weight	5 kg	
Electronic Parts	Energy Meter	Built in MID energy meter	
	Current Setting	AC output current adjustment from 10% up to 100%	
	Protective Devices	Built in RCD Type A (30mA AC leakage) + DC Residual Current protection 6mA (DC leakage 6mA according to EN 62955) **	
		Ground Loss Detection	
		Overtemperature Protection (OTP)	
		In the distribution panel : MCCB 2P Type C 40A (or fuses 35 A) to protect the charger and cabling	In the distribution panel : MCCB 4P Type C 40A (or fuses 35 A) to protect the charger and cabling
	In the distribution panel : Surge Protection Device Type 2 according to EN60364		
	Communication Protocol	S2W & OCPP 1.6 JSON	
	User Identification	RFID	
Connectivity	WIFI & Ethernet or GSM		
Installation	Grid Circuit Breaker	MCCB 2P Type C 40A (or fuses 35 A) to protect the charger and cabling in the distribution panel	MCCB 4P Type C 40A (or fuses 35 A) to protect the charger and cabling in the distribution panel
	Level of Grid Power Supply	No 03 - Level of Grid Power Supply 8kVA ***	No 3 - Level of Grid Power Supply 35kVA ***
	Explosive zones	Installation outside ATEX zones	
	Grid Substation	Not Applicable	
	Cable cross section	3x10mm <sup>2</sup> (Cable length up to 60m), 3x16mm <sup>2</sup> (cable length >60m)	5x10mm <sup>2</sup> (Cable length up to 120m), 5x16mm <sup>2</sup> (cable length >100m)
Certification	Regulations	IEC EN 61851-1:2019, IEC 61851-21-2:2018, EN 62196- 1:2014, EN 62196-2:2016, CE	
Warranty	Time of Warranty	2 years	

\*\*ORION midi has built in RCD Type A + DC residual current protection 6mA. The electrical installer should install in the distribution panel an SPD Type 2 and an MCCB Circuit Breaker Type C 40A to protect the charging station and the user.

\*\*\* The needed level of grid power supply is calculated each time based on the power demands of the installation, especially the sum of the loads of the installation and the load of the charger (7kW or 22kW) taking into consideration the simultaneity factor. The above example for 22kW charger was based on a domestic installation where the already installed grid power supply was 3-phase and 15kVA and had to be upgraded to 35kVA in order to facilitate the charging station. The above example for 7kW charger was based on a domestic installation and the charging station was connected to a new, independent power supply 03-8kVA.