

ZGR EVC-DCU

CENTRALISED CHARGING UNIT 1MW

Single-stage electronic conversion for multiple EV charging points

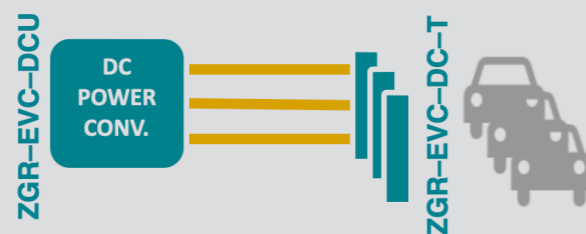
ZGR EVC-DCU centralises the electrical conversion which is then distributed to the posts. It reduces the need for physical space at the charging points and improves efficiency in energy management. Furthermore, the system allows batteries to be connected directly to the central converter for greater economic efficiency of the installation and adaptation to the available grid power. Its modular architecture with multiple self-regulating DC outputs, allows the total power available at any time to be easily adapted to that necessary at the different charging points.

The ZGR EVC-DC-T posts, compatible with powers of between 30 kW and 300 kW, allow the delivered charging power to be adapted to the total power available at the time thus maximising the use of the installation.

The complete management system allows convenient and simple remote monitoring of the entire installation, to control both the power conversion and the distribution to the different charging points and their status.



• Operating diagram:



Characteridtics

- Modular conversion: flexibility + redundancy + maximum utilisation factor
- Remote monitoring through Web Server
- Optimum distribution of the available energy
- Operates over a wide range of temperature and humidity
- Status information by light signal
- Remote monitoring and proprietary management system through Web Server
- OCPP communication standard
- Optional screen on charging posts
- Weatherproof and anti-vandal
- Fast response to the required charging settings

TECHNICAL SPECIFICATIONS		
Model	ZGR EVC-DCU	ZGR EVC-DC-T
ELECTRICAL OUTPUT CHARACTERISTICS DC		
DC Voltage range	150 ~ 1000 Vdc	
Maximum power	1 MW	From 30 to 300 kW
Connector	-	CCS1 / CCS2 / CHAdeMO (5 m cable length)
Maximum current	2500 A	825 A
ELECTRICAL INPUT CHARACTERISTICS AC		
Rated AC voltage	400 (3P + N + PE) ± 10%	-
Rated AC power	1500 kVA	-
Power factor	> 0.99	-
Frequency range	47 ~ 62 Hz	-
Efficiency	> 95 %	-
GENERAL CHARACTERISTICS		
User interface	-	LED / 24" display (optional)
Communication protocol	OCPP 2.0	
Connections	MODBUS TCP / Ethernet / 4G / 5G / WLAN	
Cooling	Forced ventilation	Forced ventilation
Operating temperature	-30°C ~ +50°C	
Corrosion class and protection rating	IP55 (IK10)	
Corrosion class	C3	C5M
Maximum altitude	2000 msl	
Humidity	4 ~ 95 %	
Dimensions (height / width / depth)	2300 x 2700 x 2000 mm	2000 x 500 x 500 mm
Approximate weight	3150 kg	182 kg
COMPLIANCE WITH REGULATIONS		
Standards and directives	EC marking IEC 61851-1, IEC 61851-22, IEC 61851-23 IEC 62196-1, IEC 62196-2, IEC 62196-3 2014/35/EU, 2014/30/EU	



ZGR PCS 3300



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