

Nereus 720 LC Power Cabinet



Main Features

- DPA Power Pool Technology (Star Chain Electrical Topology), Module Efficiency Optimization Algorithm, Efficient Module 97%
- 40kW as an increment, increased utilization by 28%
- High protection, high reliability: Designed with liquid and electrical isolation, suitable for extreme environments, with a 10-year lifespan and maintenance free.
- Redundant design of liquid cooling system for higher reliability.
- Support extending to 720kW, Maximum Supported user unit per power cabinet 18 connectors.

Specifications



Product Information	
AC Input Voltage	400Vac±10%, three-phase, 50/60Hz, 2 x (L1+L2+L3+N+PE)
AC Input Current	1088A
Power Factor	≥0.99 @ Full Load
Efficiency	96.88% (Peak)
Earthing System	TN-S, TN-C-S, TT
Output Power	720kW
Output Voltage	150-1000V DC
Output Current	2400A max.
Overvoltage	CAT III
Scene Conditions	C3-M
User Interface	
Button	Emergency stop button
Status Indication	LED indicator
Communication	
Connectivity	4G, Wi-Fi, Ethernet
Communication to the Backend	OCPP 1.6J/OCPP 2.0.1
Maximum Supported user unit per power cabinet	18 connectors
Environmental	
Operating Temperature	-30°C ~ +50°C
Storage Temperature	-40°C ~ +70°C
Humidity	5% ~ 95% no condensation
Altitude	≤2000m
Mechanical	
IP Rating	IP55
IK Rating	IK10
EVSE Cooling	Liquid-cooling (ethylene glycol)
Dimensions (WxDxH)	2000*950*2100 mm
Weight	Approx. 1800 kg
Installation	Ground mounting
Certification and Standards	
Standards and Compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU
Certification	CE-RED, CB, TR 25

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Liquid Cooling Unit	
Capacity of power module	40kW
Fluid quick connector	Hot-swappable
Estimated thermal load per module	1.2kW per power module @400Vac input,@800Vdc output
Coolant flow rate	≥110L/min per power cabinet(18 power modules)
Redundancy	Yes. Two coolant pumps and three fans.
Pump type and rated pressure	Centrifugal pump, rated pressure 2 bar max