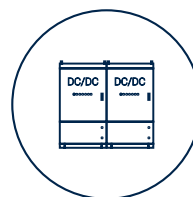
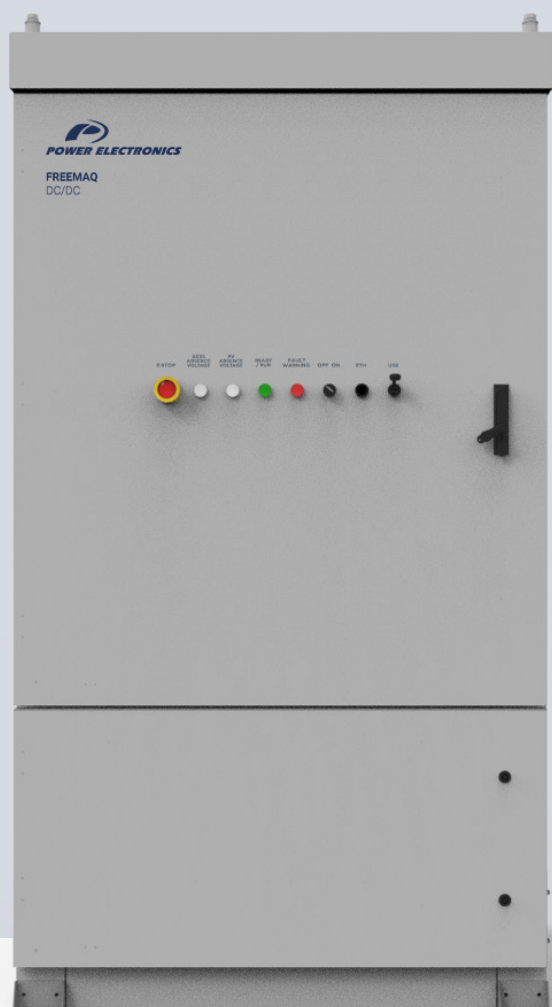


Freemaq DC/DC

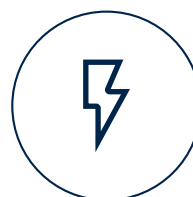
Storage for solar and EV chargers

Fits everything

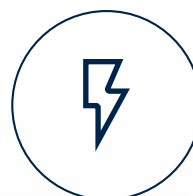
The multi-fitting product



Modular Outdoor
Solution



From 1200 kW to 4800 kW



Up to 1500 Vdc

The most efficient bidirectional DC/DC converter.

DC/DC

REFERENCES	FD1200	
DC INPUT & OUTPUT	DC Rated Power (kW) @ 30 °C	1200
	DC Rated Power (kW) @ 40 °C	1120
	DC Rated Power (kW) @ 50 °C	1000
	Max. DC Output Current (A) @ 40 °C	1100
	DC PV Voltage Range (Vdc) ^[1]	850 - 1500
	DC ESS Voltage Range (Vdc) ^[1]	850 - 1500
	Maximum DC PV Input Voltage (Vdc)	1500
	DC Voltage Ripple	< 3%
	Battery Technology	Compatible with all battery technologies
EFFICIENCY	Efficiency (Max)	98.9%
	Max. Standby Consumption	< 50 W
CABINET	Cooling	Forced air
	Enclosure Protection Degree	NEMA 3R / IP54
CONNECTIONS	Number of PV connections	2 negative / 2 positive
	Operating Temperature Range	From -35 °C to 50 °C
ENVIRONMENT	Relative Humidity	From 4% to 100% non-condensing
	Max. Altitude (above sea level)	4000 m (> 2000 m power derating)
CONTROL INTERFACE	Noise level	<79dBA
	Interfaces	Emergency stop pushbutton and indicator lights
	Communications Protocol	Modbus TCP
PROTECTIONS	Ground Fault Protection	Insulation monitoring device
	PV Disconnection	Switch
	BESS Disconnection	Contactors
CERTIFICATIONS	Safety	UL1741, IEC 62109

NOTES

[1] Consult Power Electronics for derating curves.