PowerPeer EU-500/1075

General Information

Net Dimensions WxDxH (mm)	6058x2438x2896
Container type	20 ft
Net/Gross Weight (kg)	<20.000 kg
Noise level	<75 dB
Application scenario	Off-Grid, On-Grid, Microgrid
Ingress Protection	IP55 (IP20 optional)
Operation Temperature	-30 (minus) – +55℃ (plus)
Relative Humidity	<95%, no condensing
Expected lifetime	10+ years
Warranty	System 2.5 years, Batteries 5-10 years (upon battery type and use case)

AC Output

Rated Output Power	500 kW
Battery Output Voltage current	EU-3ph 400V (U/V/W?N/PE)
Overload	10 sec @ 125%~150% 60 sec @ 120% 10 min @ 110%
External Plug	Industrial connections: Busbar, Powerlock(optional) EV CSS2 charger (80/120/180kW, optional)

AC Input

Input AC voltage Current	EU-3 phases 400Vac ±3% 50 Hz Single Phase, 220Vac/230Vac ±5% 16A 50 Hz
External Plug	AC Charging & Diesel Generator: Busbar, Powerlock (Optional), CEE Form(Optional)

Certification

CE, IEC, VDE/EN50549 (optional)

Battery

Nominal Battery Capacity	1075 kWh
Battery Type	LFP 280 Ah (EVE)
Maximum Discharge/Charge	0,5C/0,5C
Operating Voltage DC	672V-864V
Maximum Current DC	468A
Battery Cycle Life	5 years or 5000 cycles (80% SOH)

Protection & Features

Proctection: Overvoltage protection, Over current protection, Overload protection, Short circuit protection, Over temperature protection, Anti-Island protection, Insulation monitoring, Residual current monitoring, Battery reverse polarity protection, Overheat protection

Features: Bi-Directional charging (at 50 Hz), Peak Shaving Mode, Fire Propagation (compliant with UL9540A, in accordance with PGS-37 (2)), Software on EU based servers

Subject to technical changes, errors excepted

Use cases

- Charging and discharging load (-bank)
- DG charged, pass through
- DC side charged
- Grid charged, grid following pass through (if grid stops pass through stops)
- Island mode grid forming
- Peak shaving from load
- Peak shaving from grid
- Peak shaving from DG
- Overload protection
- Mobility design for the equipment rental industry
- EV Charging

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