PowerPeer EU-100/215

General Information

Net Dimensions WxDxH (mm)	2150x1450x1900
Container type	Outdoor cabinet
Net/Gross Weight (kg)	3000 kg
Noise level	<75 dB
Application scenario	Off-Grid, On-Grid, Microgrid
Ingress Protection	IP55
Operation Temperature	-30 (minus) – +55℃ (full performance)
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	100 kW
Battery Output Voltage current	EU-3ph 400V (U/V/W/N/PE)
Overload	**PowerPeer 100/215 model** 10 sec @ 125%~150% 60 sec @ 120% 10 min @ 110% **PowerPeer 100/215-Pro model** 10 sec @ 250%~300% 60 sec @ 240% 10 min @ 220%
External Plug	Industrial connections: Busbar, CEEform, Powerlock(optional), EV CSS2(external & 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 EV CSS2(30kW or 60kW optional)

Battery

Nominal Battery Capacity	215 kWh
Battery Type	LFP 280 Ah (CATL)
Maximum Discharge/Charge	1C/1C
Operating Voltage DC	672V-864V
Maximum Current DC	234A (100/215 model) / 357A (100/215-pro model)
Battery Cycle Life	5years or 5000cycles (80% SOH)

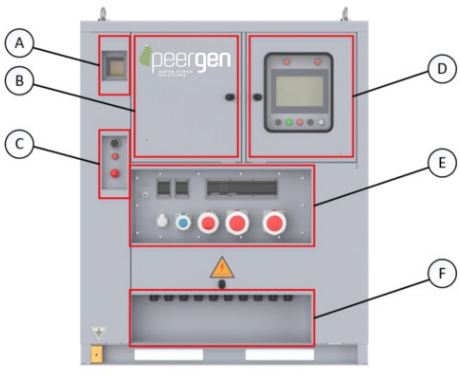
Certification

CE, IEC, VDE/EN50549 (optional)

Protection & features

Protection: 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



Ⓐ UPS panel
Ⓑ Main Circuit Breaker panel
Ⓒ GPS, EPO and Alarm Buzzer
Ⓓ Control panel
Ⓔ Connect panel
Ⓕ Copper bar connect panel

Use cases

- Charging and discharging load (-bank)
- DG charged, pass through
- EV charger charged (optional)
- 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
- Mobile EV charging

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