

» POWRBANK PRO

EMISSION-FREE, SILENT POWER

The POWRBANK PRO energy storage system works with diesel generators to reduce carbon emissions and fuel usage by up to 80%. When used with renewable energy sources, it provides endless hours of zero-emission power.



MODEL	VOLTS	kVA	KWH	PHASE
P45.90/400	400	45	90	3

POWER

Output (stand alone)	Standby Rating 30 min (kVA) @ 25°C ¹	45
	Prime Rating (kW) @ 25°C / 40°C ¹	36 / 30
	Full Load Current	65A per phase
Output (when external source available)	Maximum Load per Phase Before Generator Start Command (kW) ^{1,2}	10.2 (Immediate Start) 9 (5 mins)
	Maximum Load (all phases) Before Generator Start Command (kW) ⁵	26.9 (2 hours)
Combined System Output	Continuous Pass Through per phase (External Source Only) (A)	100
	Max Combined Output per phase (External Source + HES) (A) ¹	150
	Max Power Assist (kVA) ¹	25
Input/Output	AC Input Voltage Range (V)	400 (320 - 460)
	AC Output Voltage - 50 Hz (V)	400
	Input Connections ⁶	125A 400V & 16A 230V CEE-Forms, 400V BusBar
	Output Connections ⁶	125A 400V & 16A 230V CEE-Form & 400V BusBar
	Protection	Overload, Overheat, Short Circuit, Earth Fault

STORAGE

Type	LFP (Lithium Iron Phosphate)
Nominal Capacity @ 25°C (kWh)	85.24
Charge Time (hours) @ 25°C ³	4h 15min
Maximum System Efficiency @ 25°C	90%
Battery Management System	Industrial Grade Intelligent Passive BMS Optimised for HES Applications
Expected Cycle Life (To 80% Original Capacity)	6,000
Maintenance Charge Cycle	≤ 3 weeks

CONTROL

Control Panel	ECM 7" Touch Screen Control Module
Temperature Control	Analogue Voltage Controlled Forced Air Cooling
Remote Generator Start	Dry Contact Relay
Remote Communication	3G/4G Dual SIM Modem/Router, POWR2 Portal

ENVIRONMENTAL

Water/Ingress Protection Rating	IP55
Operating Temperature Range (°C) ⁴	-12 to +50
Sound Level (dBA) @ 0% / 100% Fan Speed	Acoustic Pressure @ 3m: 0 / 66

MECHANICAL

Dimensions L x W x H (mm)	1450 x 1238 x 2122 / 57.09 x 48.74 x 83.54
Weight (kg / lbs)	1780 / 3923
Lift Points	Forklift Pockets, Lift & Drag Skid, Lifting Ring

¹ Depending on battery bank SoC ² Multiple start conditions available upon request for bespoke applications. ³ Charge time dependent on available power of external source and operating temperature. ⁴ When the internal battery temperature reaches below 2°C or above 45°C, the charge current is reduced to 0.06C to protect the batteries. ⁵ Without exceeding Max. Load per Phase. ⁶ Customizable Sockets. Document updated Jan 2023. While POWR2 aims to ensure all documentation is accurate, no responsibility will be accepted for errors or omissions. This document is not intended to be contractual. © POWR2 2023 Datasheet P45.90-400_V3