

# »POWRBANK MAX

## EMISSION-FREE, SILENT POWER

The POWRBANK MAX reduces CO2 emissions and eliminates unwanted noise. The POWRBANK MAX can handle large loads including, but not limited to, tower cranes, pumps, and hoists. It can handle both the peak loads at engine start-up, as well as the low loads. The power generator is only used to recharge the POWRBANK battery.

With the onboard energy control module, the POWRBANK constantly monitors load levels and automatically switches between generator power and stored energy.

- Eliminates generator oversizing
- Minimizes generator emissions
- Conserves fuel
- Provides extended periods of silent power
- Reduces generator service frequency



MODEL	VOLTS	kW	kWh	PHASE
M300.600/400	400	300	597	3

### POWER

Output (stand alone)	Standing Rating 10 min (kW)	300
	Mode of Operations	Grid Forming and Following
	Grid Code Standard	AS/NZS 4777.2:2020, EN 50549-1:2019, G99, VDE-AR-N 4105:2018
	Output Rating Prime (kW)	277
	Region of Application	Europe, Australia
Combined System Output	Continuous Pass Through Per Phase (A)	400
	Maximum Combined Output Per Phase (A) <sup>1</sup>	800
	Run-Time @ Max Combined Output (H)	Unlimited
Input/Output	AC Input Voltage Range	310V – 450V
	AC Output Voltage - 50 Hz	400V
	Input Connections - 1 (Inverter Connected)	800A Powerlock
	Input Connections - 2 (Charger Connected)	800A Powerlock, 125A Inlet(3Ph), 32A(3Ph), 16A(3Ph) CEE Inlet, 16A Maintenance
	Output Connections	800A Powerlock, 125A CEE Outlet, 32A (3Ph), 16A (1Ph) CEE Outlet
	Protection	Overload, Overheat, Short Circuit, Earth Fault, Back Feed Protection
Power Conversion & Handling	Battery Charger Capacity <sup>2</sup>	150kW
	AC/DC Chargers	Five (5) Onboard Chargers
	Inductor	Integrated Inductor

### STORAGE

Type	LFP
Nominal Capacity @ 25°C	597 kWh (@0.75C Max)
Charge Time @ 25°C <sup>3</sup>	3 Hr at No Load
System Efficiency	95%
Battery Management System	Industrial Grade Intelligent Passive BMS Optimized for HES
Expected Cycle Life (To 80% Depth of Discharge)	>7000 Cycles
Maintenance Charge Cycle	3 Months
Auxiliary Power Backup Time <sup>4</sup>	3 Hours
DC Voltage Range	1116V - 1345V

### CONTROL

Control Panel	ADVANTAGE by POWR2, 10" Touch Screen Control Module and Energy Management Cloud
Temperature Control	HVAC System for Cooling and Heating
Remote Generator Start	Dry Contact Relay
Remote Communication	3G/4G Dual SIM Modem/Router, POWR2 Portal

### ENVIRONMENTAL

Water/Ingress Protection Rating	Nema 3R/ IP55
Operating Temperature Range (°C)	-35°C – 60°C (Derating Above 50°C)
Sound Level (dBA)	<68dB @ 1m

### MECHANICAL

Dimensions L x W x H	2,991mm x 2,438mm x 2,591mm
Weight (kg / lbs)	9,750 / 21,495
Lift Points	Forklift Pockets, Lifting Rings

<sup>1</sup>Maximum Combined Output Per Phase depends on the SoC level of the battery. Not Recommended to run continuously at low SoC levels.

<sup>2</sup>Charging Capacity can be augmented based on customer requirements.

<sup>3</sup>Charge time dependent on available power of external source and operating temperature

<sup>4</sup>Backup Time can be increased, based on customer requirement

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