

PowerDepot G2

PowerDepot G2 is a low-voltage product designed for residential energy storages. It supports 50 parallel units with a capacity range from 5.12kWh to 256kWh. It also has a high IP66 protection rating and supports indoor and outdoor installation. Built-in aerosol fire extinguisher that eliminates fire risks and ensures the safety of electricity in the home.



Flexible Expansion

Up to 50 units in parallel,
5.12kWh--256kWh capacity



IP66 Protection

Fearless of outdoor installation,
strong environmental adaptability



Ultra Safe

Intelligent fire extinguishing system,
detects and extinguishes fire in 5s



Automatic Self-heating

-20°C to 55°C operating
temperature (optional)



Easy Installation

Support wall-mounted,
floor-mounted installations, high
space utilization



Battery Equalization

Supports for mixing modules under
different SOC to ensure battery life

Model	PowerDeopt G2
Battery Type	Lithium-iron Phosphate (LiFePO ₄)
Nominal Battery Energy	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8V~57.6V
Recomended Charge & Discharge C Rate	0.5C (50A)
Max. Charge C Rate	0.75C (75A)
Max. Discharge C Rate	1C (100A)
Peak Discharge Current (25°C)	120A, 10min
Usable Battery Energy	5.12kWh
Recommended Charging & Discharging Power	2.56kW
Max. Charging Power	3.84kW
Max. Discharging Power	5.12kW
Round Trip Efficiency*	≥92%
Depth of Discharge (DOD)	100%
Charging Temp. Range	0°C~55°C/-20°C~55°C(optional)
Discharging Temp. Range	-20°C~55°C
Net Weight	54.4kg
Dimension[W/D/H]	450/660/165mm
Cycle Life *	≥5000 Cycles, 80%EOL
Protection Level*	IP66
WIFI Module	Built-in WiFi module, APP OTA
Communication	CAN/RS485
Expansion	Up to 50 units in parallel
Fire Protection System	Built-in aerosol fire extinguisher
Certification	UN38.3/IEC62619/CE-EMC
Compatible Inverters	SMA/Schneider/Victronenergy/Ingeteam/Solis/GoodWe/ Growatt/Solplanet/Luxpower/DEYE etc.

* Test conditions: 100% (DOD), 0.2C rate charge & discharge at 25°C, at the beginning of life.

