LIFE BATTERY SYSTEM 48-100 (ESS)

- · Compact size and lightweight
- The modular design allows easy expansion for the future, up to 10 units (50kWh in total)!
- Fast Charging (Lithium-Ion Technology)
- 6000-8000 charge actions, are approximately 12-15 years product life
- Works with all our solar Inverters, one ESS for all!
- Linear Back-up times (Lithium-Ion Technology)
- 50% more discharging ability, up to 150A
- 192A peak discharging capability (1min long)

The PowerWalker LiFe Battery System is a modular and scalable lithium-ion battery pack, suitable for all our solar inverters. The energy storage system, or ESS, is lightweight and compact. It charges at a high rate, and it is designed to last between 2000-8000 charge cycles; perfect for long term projects. The lithium-ion technology guarantees safety and reliability. The back-up time behaves in a linear fashion, so you will always know what to expect!



ESS Module	LiFe Battery System					
Battery Cell Technology	Lithium Iron Phosphate					
Applicable Inverter Rating	≤ 5.6kW					
Number of Modules	1	2	3	4		
Usable Energy	5kWh	10kWh	15kWh	20kWh		
Rated Discharging Current	150A					
Peak Discharging Current	192 A, 1 min					
Nominal Voltage	51.2 V					
Operating Voltage	38-56VDC					
Charging Current	100A Max, 30A Default					
Dimensions D x W x H (mm) without feet	185 x 540 x 320	185 x 540 x 640	185 x 540 x 960	185 x 540 x 1280		
Net Weight (kg)	48	96	144	192		



With PDU on top	LiFe Battery System with PDU				
Applicable Inverter Rating	6 – 12kW				
Number of Modules	2	3	4		
Number of PDU Module		1	\rightarrow		
Usable Energy	10kWh	15kWh	20kWh		
Rated Discharging Current	300A				
Peak Discharging Current	384 A, 1 min				
Net Weight	102	150	198		
General Specifications	Values				
Operation Temperatur	0°C-50°C				
IP Protection	IP20 (Only indoors)				

ONE ESS FOR ALL!

The ESS, together with our solar inverters will function as a centralized power solution:

- 1. store solar power into the batteries,
- 2. save money by using the stored energy for self-consumption (night-time), and
- 3. use it as a power back-up when the power grid fails.

Works with all PowerWalker solar solutions - One ESS for all!

The battery system can be discharged with a maximum current of 150A. Above 150A, it is required to use the PDU for the LiFe battery system.



Under optimal conditions and usage, the ESS can have a lifespan of 8000 charge cycles (60% DOD at 1C discharging current and 0.2C recharging current with >50% capacity compared to original capacity), and under normal conditions and usage, the ESS can have a lifespan of 2000 charge cycles or less (90% DOD at 1C discharging current and 0.2C recharging current with >80% capacity compared to original capacity).

Back-Up Examples (Lithium-Ion Compound = Linear Back-up)

Load	1 Module	2 Modules	3 Modules	4 Modules
5 kWh	54 min	108 min	162 min	216 min
10 kWh	27 min	54 min	81 min	108 min
2,5 kWh	108 min	216 min	324 min	432 min