

ESS Technical Data Sheet

Model	PST 5.12kWh
Battery Chemistry	LifePo4
Capacity	100Ah
Scalability	Up to 15 Packs Parallel
Nominal Voltage	51.2v
Operating Voltage	43.2v – 57.6v
Energy	5.12kWh
Usable Energy	4.61kWh
Dimensions L/W/H	600x481x180 (mm)
Weight	51kg
Charge Current	0.5C Rate Charging (50A)
Discharge Current	1C Rate Discharging (100A)
Depth of Discharge (DOD)	90%
BMS & SOC Status	LED Indicator, Display, Bluetooth
Balancing	3A Active Balancing
For Mobile Interface	Bluetooth
For PC Interface	RS 232
For Inverter Interface	RS 485 / CAN 2.0
Battery Parallel Communication Port	RS 485 - 2, RS 485 - 3
IP Rating	IP20
Operating Temperature	0 – 55 °C
Storage Temperature	0 – 35 °C
Humidity	5 – 95%
Altitude	<2000m
Cycle Life	≥6000 (25 °C, 0.5 C Chg. & Dischg., 70% EOL)
Installation	Rack Mount / Leg Mount (optional)
Energy Throughput	16Mwh@70%EOL
Certification*	UN38.3, UL1973, IEC62619, CE, CEI 0-21
Warranty Period	Manufacturing warranty of battery pack is one year and product warranty of cells are 6000 cycle life or 10 years whichever comes first due for warranty

Note: *Certification Under Process.