

ESS Technical Data Sheet

Model	PST 2.56kWh	PST 4.8kWh	PST 5.12kWh	PST 9.6kWh
Battery Chemistry	LifePo4			
Capacity (Ah)	100			
Scalability	15 Packs Parallel			
Nominal Voltage (V)	25.6v	48v	51.2v	96v
Operating Voltage (V)	21.6v – 28.8v	40.5v – 54v	43.2v – 57.6v	84v – 108v
Energy (kWh)	2.56kWh	4.8kWh	5.12kWh	9.6kWh
Usable Energy (kWh)	2.30kWh	4.32kWh	4.61kWh	8.64kWh
Dimensions L/W/H (mm)	380x481x180	600x481x180	600x481x180	600x778x180
Weight (Kg)	29kg	49kg	51kg	90kg
Charge Current (A)	0.5C Rate Charging (50A)			
Discharge Current (A)	1C Rate Charging (100A)			
Depth of Discharge (DOD)	90%			
BMS & SOC Status	LED Indicator, Display, Bluetooth			
Battery Pack Information	Display, Bluetooth			
For Mobile Interface	Bluetooth			
For PC Interface	RS232			
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			
Energy Throughput	8Mwh@70%EOL	15Mwh@70%EOL	16Mwh@70%EOL	30Mwh@70%EOL
Certification (under progress) *	(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.