



RESIDENTIAL ESS SOLUTION SE-G5.1 Pro-B



Flexible

Modular design, easy to expand, Max. 64 units in parallel, Max. capacity of 327kWh
Suited to residential and commercial applications for increasing the self-consumption ratio



Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery :
Safety and long Lifespan, high efficiency and high power density Intelligent BMS, providing complete protection



Reliable

Support high discharge power. IP20, natural cooling, wide temperature range : -20 °C to 55 °C



Eco-Friendly

Use environmental protection materials, the whole module non-toxic, pollution-free



Convenient

Battery module auto networking, easy maintenance, support remotely monitoring and upgrade, support USB drive upgrade the firmware.



Space-Smart

Ultra-Thin, Super-Thin, and Modular design available, suitable for diverse installation scenarios and space requirements.

Rack-Mounted Battery (LV)



Model		SE-G5.1 Pro-B
Main Parameters		
Battery Chemistry		LiFePO ₄
Built-in Circuit Breaker		125A 2P, 60Vdc
Capacity (Ah)		100
Scalability		Max. 64 pcs pack (327kWh) in parallel (Max. 32 pcs no external setup)
Nominal Voltage (V)		51.2
Operating Voltage (V)		43.2 ~ 57.6
Energy (kWh)		5.12
Usable Energy (kWh) ^[1]		4.6
Charge / Discharge	Recommend	50
	Max	100
	Peak (2mins, 25°C)	150
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (W × H × D, mm)		440 × 133 × 540
Weight Approximate (kg)		45
Master LED Indicator		5LED (SOC : 20% ~ SOC100%) , 3LED (working, alarming, protecting)
IP Rating of Enclosure		IP20
Operating Temperature		Charge : 0~55°C (Optional heating : -20°C ~ 55°C), Discharge : -20°C~55°C
Storage Temperature		0°C ~ 35°C
Humidity		5% ~ 95%
Altitude		≤2000m
Cycle Life		≥6000 (25°C±2°C, 0.5C / 0.5C, 90%DOD, 70%EOL)
Installation		Wall-Mounted, Floor-Mounted,Rack-Mounted (19-inch standard cabinet, cabinet depth ≥600mm)
Communication Port		CAN2.0, RS485
Warranty Period ^[3]		10 years
Energy Throughput		16MWh@70%EOL
Certification		UN38.3, IEC62619, CE, UK, VDE 2510-50, CEI 0-21, FCC, UL1973, UL9540A, UL9540

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

[3] Conditions apply, refer to Deye Warranty Letter.

Typical Configuration

Support Sol-Ark 12kW, 15kW inverters to connect the battery, and 3 to 12 batteries can be connected in parallel.

1 hour solution	3xSE+12kW Inverter	3xSE+15kW Inverter
2 hours solution	5xSE+12kW Inverter	6xSE+15kW Inverter
3 hours solution	8xSE+12kW Inverter	9xSE+15kW Inverter
4 hours solution	10xSE+12kW Inverter	12xSE+15kW Inverter

Cabinent Design



SE-G5.1-Pro-B-Cabinet



SE-G5.1-Pro-B-BC



SE-G5.1-Pro-B-Ultra

Model	SE-G5.1-Pro-B-Ultra	SE-G5.1-Pro-B-Cabinet	SE-G5.1-Pro-B-BC
IP Rating of Enclo	IP65		IP54
Bearing Capacity	≤300kg		≤250kg
Weight Approximate	75kg		51kg
Dimension (W/D/H, mm)	1085 × 140 × 1450mm	1085 × 320 × 950mm	575 × 610 × 1130mm
Altitude	≤3000m		
Recommended Operating Temperature	-20°C ~ +55°C		
Reference standard	UL2416, UL60950-1, EIA-310-E		
Warranty	10 Years		
Color	White(RAL9016)		
Material	SGCC		
Applicable to the Product	SE-G5.1Pro-B, SE-G5.3, SE-G5.1 or other 3U batteries		



POWERING YOUR LIFE