

REDÓN
Incredible power within

Redstack

ESS & High Voltage Series





Reliable

- High discharge 100A continuous
- Intelligent multi-layer battery protection
- Stable performance with LiFePO4 chemistry

Flexible

- Modular stackable design
- Expandable system capacity
- Supports parallel battery connection
- Plug-and-play stackable modules

Convenient

- Automatic module networking
- Real-time battery monitoring
- Compatible with major UPS & inverters

Eco-Friendly

- Non-toxic battery materials
- High efficiency energy storage
- Long cycle life reduces waste

REDONSTACK Main Parameter

Battery Model Number	51.2V 100Ah	121.6V 100Ah	192V 100Ah	240V 100Ah	384V 100Ah	614.4V 100Ah	
Number of battery units in parallel (Optional)	upto 16						
Number of battery units	16 (8+8) two column	4	5	6	9	13 (6+7) two column	
Battery Chemistry	LiFePO4						
Built-in Circuit Breaker	125A 1P, 500Vdc with main emergency stop switch contactor						
Battery Module Energy (kWh)	5.12						
Battery Module Voltage (V)	51.2						
Battery Module Capacity (Ah)	100						
Nominal Voltage (V)	51.2						
Operating Voltage (V)	44.8 ~ 57.6	106.4 ~ 136.8	168 ~ 216	210 ~ 270	336 ~ 432	537.6 ~ 691.2	
Nominal Energy (kWh)	5.12 to 81.9	12.1	19.2	24	38.4	61.4	
Usable Energy (kWh) [1]	4.6	10.89	17.28	21.6	34.56	55.26	
Rated DC Power (KW)	4.6	9.801	15.552	19.44	31.104	49.734	
Charge / Discharge current (A) [2]	Recommended Max Peak (10s, 25°C)	50	50	50	50	50	50
		100	100	100	100	100	100
		125A (10s, 25°C)					

REDONSTACK Other Parameter

Recommend Depth of Discharge	90%					
System Dimension (L × W × H, mm)	510x494x 212	510x494x 852	510x494x 1060	510x494x 1272	510x494x 1908	510x995x 1484
System Weight (kg)	47	188	235	288	423	612
Battery Module Dimension (W × D × H,	510±10×594±10×212±10					
Battery Module Weight (kg)	47					
Master Display Indicator	PDU module : SOC, alarming, protecting, fault, module voltage, string voltage, temperature, working status, log, charge current, discharge					
IP Rating of Enclosure	IP20					
Operating Temperature	Charge : -20°C ~ 55°C / Discharge : -20°C ~ 55°C					
Standard charging method by manufacturer	Charge at 25±2°C at constant current 50A until the voltage reaches 57.6V.					
Standard discharging method by manufacturer	Discharge at 25±2°C at constant current 50A until the voltage reaches 44.8v.					
Storage Temperature	0°C ~ 35°C					
Altitude	5% ~ 95%, non-condensing					
Installation Time	120 min., Floor-Mounted					
Communication Port	CAN2.0, RS484 (OTA update with GPS+GSM optional)					
Cycle Life	≥2500 (25°C±2°C , 0.5C / 0.5C, 90%DOD, 70%EOL)					
Energy Throughput per module	11MWh (Battery Module @70%EOL)					
Warranty Period [3]	5 years					
Certification [5]	BIS : IS 16046 (Part 2):2018 / IEC 62133-2:2017					

[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. [4]Made in Bharat.[5] BIS Module level

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