

RD55

5-30kW All-in-One Stacked Energy Storage System



Integrated Inverter and Storage
Battery, Built-in MPPT Controller



Modular Design for Good Expansibility
Up to 6 Battery Modules in Parallel









Supports Off-grid and
UPS Working Modes



Adopting High Cycle Times,
LiFePO4 Cells and Intelligent System



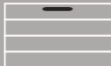



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5-30kW All-in-One Stacked Energy Storage System

Model	RD55-5	RD55-10	RD55-15	RD55-20	RD55-25	RD55-30
Stacked Graphic						
Battery Parameters						
Stack Number	1	2	3	4	5	6
Usable Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Rated Capacity	100Ah	200Ah	300Ah	400Ah	500Ah	600Ah
Battery Type	LiFePO4					
Rated Voltage	51.2V					
Max. Operating Current	100A					
Cycle Times	≥6000 Cycles @ 80% DOD, 25 °C, 0.5C					
Charge Voltage	56V					
Discharge Cut-off Voltage	46V					
Charge Temperature	0°C ~ 60°C					
Discharge Temperature	-20°C ~ 60°C					
Storage Temperature	0 °C ~ 45 °C @ 60% ± 25% RH					
Battery Data						
Battery Type	Lithium					
Nominal Battery Voltage	48V					
Max. Continuous Charging Current	80A					
Max. Charge Power	4.5kW					
Max. Discharge Power	5kW					
PV Input Data						
Max. Input Power	5.5kW					
Max. Input Voltage	500V					
MPPT Operating Voltage Range	120 ~ 430V					
Start-up Voltage	150V					
Nominal Input Voltage	300V					
Number of MPPT Trackers	1					
Number of String per MPPT	1					
AC Output Data						
Rated Power	5kW					
Nominal Output Current	21.7A					
Nominal Output Voltage	220/230/240V					
Nominal Output Frequency	50/60Hz					
Output THDv (@Linear Load)	<3%					

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Stacked Graphic						
	Coverision Efficiency					
	Max. Efficiency	93.6%				
	MPPT Efficiency	99.9%				
	Protection					
AC Overcurrent Protection	Integrated					
AC Short Circuit Portection	Integrated					
AC Overvoltage Protection	Integrated					
Remote Shutdown	Integrated					
Environmental/Ambient Conditions						
Operating Temperature Range	0 ~ 50°C					
Excess Temperature Behaviour	Excess Temperature Behaviour					
Relative Humidity	0 ~95%					
Installation Altitude above sea level	Up to 2000m above sea level					
Cooling Method	Air Cooling					
Mechanical Data						
Protection Level	IP20					
Installation Type	Floor-standing					
Communications						
Display	LCD, WLAN + APP					
Monitoring Settings	Integrated data logger					
Communication with BMS	CAN					
Communication with Portal	WiFi					
Other Data						
Topology	Transformerless					
Reliability	Integrated					

The above data is from laboratory tests, equipment data may fluctuate due to different factors, for reference only, please refer to the actual situation for details.