

Specification

Model	YL-R24100	YL-R24200	YL-R4850	YL-R48100	YL-R48150	YL-R48200
Electrical						
Battery Type	LiFePO4					
Nominal Voltage	25.6V		48V			
Nominal Capacity	100Ah	200Ah	50Ah	100Ah	150Ah	200Ah
Nominal Energy	2.56kWh	5.12kWh	2.4kWh	4.8kWh	7.2kWh	9.6kWh
Max. Output Power	2.56kW	2.56kW	2.4kW	4.8kW	4.8kW	4.8kW
Recommended Charge Current	20A	40A	10A	20A	30A	40A
Max. Continuous Charge Current	100A	100A	50A	100A	100A	100A
Max. Continuous Discharge Current	100A	100A	50A	100A	100A	100A
Mechanical						
Net Weight	25kg	48kg	25kg	45kg	60kg	74kg
Dimension (W*D*H)	442*280*177mm	442*340*230mm	442*480*132mm	442*450*177mm	442*450*195mm	442*600*230mm
Installation Way	Indoor 19 Inch Rack Mount or Stackable					
IP Rating	IP31					
Operation & Configurations						
Battery Level	Brand New Premium Grade A Battery Cells					
BMS Level	High Precision Panasonic IC, Intelligent BMS					
Alarm and Protection	Multiple Protections from Battery Cells to Battery Pack					
Operating Voltage	20.00~29.20V		37.50~54.75V			
Operating Temperature Charging	0~55°C					
Operating Temperature Discharging	-20~60°C					
Monthly Self Discharge	≤2% @25°C					
Efficiency of Charge & Discharge	≥99.5% @0.2C					
Cycle Life	More than 6,000 Times*					
Communication	CAN/RS485/RS232/Dry Contact					
Compatible Inverters	Deye, Growatt, Sol-Ark, SunSynk, Victron, Voltronic, Goodwe, Luxpower, Sofar, SMA, Schneider, Solis, TBB, INVT, etc					
Parallel Capability	Support up to 30PCS in Parallel**					
	Expendable up to 76.8kWh	Expendable up to 153.6kWh	Expendable up to 72kWh	Expendable up to 144kWh	Expendable up to 216kWh	Expendable up to 288kWh
Monitoring & Commissioning	PC Terminal or WiFi Module Remote Monitoring (Optional)					
Warranty	10 Years					
Certifications & Safety Standards	CE, IEC62619, IEC/EN61000-3, IEC/EN61000-6, ROHS, UL1973, UN38.3, MSDS					

*: @0.5C, 80% DoD, 25°C **: Connect with Yilink Communication Hub

Rack Batteries

iPower R Series 25.6V & 48Vdc



Contact Us



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Proven Reliability in Real-World Deployments

Not lab-tested claims — performance validated in actual projects

900+ MWh Deployed Globally

Trusted across residential, commercial & industrial applications

Certified by UL, TÜV, SGS

Fully compliant with global safety standards

<0.5% BMS Issue Rate

Stable system operation with minimized downtime

Near-zero Cell Failure Record

No Grade-B or refurbished cells, ever

10 Years Warranty + 24h Response

Real support, not just documentation

● Smart & Stable Control

High-precision intelligent BMS

Advanced IC architecture

SOC integration algorithm based on real scene feedback

Better protection, longer lifespan, safer operation, more reliable performance

● True Usable Energy

100% depth of discharge

98% system efficiency

More usable energy, faster payback

● Long Life Span

6,000-8000+ cycles

10-15 years service life

Lower replacement cost over project lifetime

● Designed for Profitability & Scalability

Plug & play commissioning

Faster installation, lower labor cost

Remote monitoring (WiFi optional)

Real-time visibility & maintenance

Module design & strong parallel capability

Flexible system sizing for different project needs

Wide inverter compatibility

Deye, Growatt, Sol-Ark, SunSynk, Victron, Sofar, Voltronic, Goodwe, Luxpower, SMA, Schneider, Solis, TBB, INVT, etc

Engineered for Long-Term ROI