

Rack System LV4850

REDWAY 48V PowerRack LV4850 System with its smart BMS in each battery module, no extra communication devices need. The entire system is intelligently managed, support **Off-Grid** or **Hybrid** working mode, widely used for household, community and C&I purpose. Keep you powered on all the time.

IEC CE RoHS UN38.3

FEATURES AND ADVANTAGE

-  **High Safety LFP**
Cell level monitoring and balancing
-  **Expandable**
Capacity from 2.4kWh to 36kWh
-  **Modular Design**
Free parallel configuration
-  **19" Inch**
Easy installation & maintenance
-  **Wide Application**
Cover all needs in commercial fields
-  **Wide Compatibility**
Matching leading inverter brand
-  **APP Monitoring**
Remote upgrade available



Rack System LV4850

TECHNICAL PARAMETERS OF PM-LV4850-3U

Model	PM-LV4850-3U
Battery Type	LiFePO4 (LFP)
Nominal Capacity	50Ah
Nominal Battery Energy	2.4kWh
Nominal Voltage	48V
Net Weight	24Kg
Dimension (L*W*H)	17.32*12.99*5.28in (440*330*134mm)
Charging Temp. Range	0 ~ 55°C
Discharging Temp. Range	-20 ~ 60°C
Communication	CAN/RS485
Design Life	20 Years
Cycle Life (0.2C Charging/Discharging, @25C, 40% DOD)	> 8000 Cycles
Cycle Life (0.2C Charging/Discharging, @25C, 80% DOD)	> 4000 Cycles
Scalability	Up to 15 Units
IP Grade	IP21
Compatible Inverters	Victron/SMA/Goodwe/Solis/SAJ/Growatt/Luxpower/SRNE/Voltronic/Deye etc.
Certification & Safety Standard	IEC62619/CE/UN38.3



PM-LV4850-3U



PR-LV4850-3U-4P

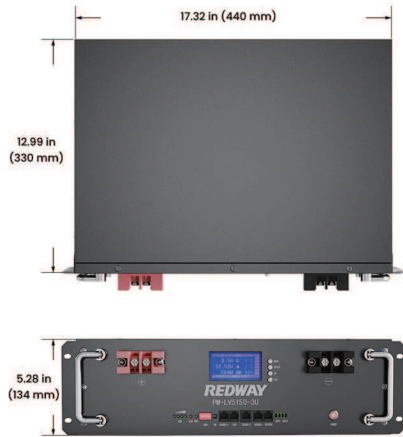


PR-LV4850-3U-8P

TECHNICAL PARAMETERS OF PR-LV4850-3U SERIES

Rack Type	PR-LV4850-3U-4P	PR-LV4850-3U-8P	PR-LV4850-3U-12P
Battery Module Type	PM-LV4850-3U	PM-LV4850-3U	PM-LV4850-3U
Battery Type	LFP	LFP	LFP
Nominal Battery Energy	9.6kWh	19.2kWh	28.8kWh
Nominal Capacity	200Ah	400Ah	600Ah
Nominal Voltage	48V	48V	48V
Operating Vol. Range	37.5V ~ 54.75V	37.5V ~ 54.75V	37.5V ~ 54.75V
Nominal Power Output	4.8kW	9.6kW	14.4kW
Max. Power Output	7.68kW	15.36kW	23.04kW
Charging Current (Recommended)	100A	200A	300A
Discharging Current (Recommended)	100A	200A	300A
Net Weight	100Kg	273Kg	450Kg
Module Quantity and Configuration	4 Units in parallel	8 Units in parallel	12 Units in parallel
Dimension (L*W*H)	18.11*13.07*25.2in (460*332*640mm)	23.62*23.62*60.43in (600*600*1535mm)	23.62*23.62*60.43in (600*600*1535mm)

Due to our policy of continuous product innovation, some specifications may change without notification.



PM-LV5150-3U

ENERGY STORAGE SOLUTIONS

PM-LV5150-3U is a rack type module used in household, community and small commercial energy storage system, safe and good expansion. This module can be connected directly in parallel for simple stack use or built in cabinet to meet the needs of different users.

Features & Advantages



Standard Design

Standard 19" and 3U Design



Expandable

Capacity up to 38.4kWh



High Safety

LFP & Smart BMS



Wide Compatibility

Compatible with various inverter brands



Automotive Grade Battery Cell



Cost Effective

Technical Parameters

Model	PM-LV5150-3U
Battery Type	LiFePO4
Battery Capacity	50Ah
Nominal Voltage	51.2V
Working Voltage	40~58.4V
Norminal Energy	2.56kWh
Net Weight	25Kg
Dimension [L*W*H]	17.32*12.99*5.28in (440*330*134mm)
Maximum Charge Current	1C/50A
Maximum Discharge Current	1C/50A
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~60°C
Series/Parallel Number	16S1P
Communication	CAN/RS485
Design Life	20 Years
Cycle Life (25°C@40%DOD)	>8000 Cycles
Cycle Life (25°C@80%DOD)	>4000 Cycles
IP Grade	IP21
Scalability	Up to 15 Units in parallel
Color	Black
Warranty Document Supplied	Yes
Alarms	Overcharge/OverDischarge/Overcurrent/ OverTemperature/ShortCircuit
Monitoring & Protection	Built-in smart BMS
Pros	Can be used in both off-grid and hybrid setups, compact design, stack or cabinet installation.
Optional Functions	LCD screen/Circuit breaker
Compatible Inverters	Victron/SMA/Goodwe/SRNE/Solis/SAJ/Grow att/Luxpower/Voltronic/Deye/etc.
Certification & Safety Standard	CE/UN38.3



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PM-LV48100-3U

ENERGY STORAGE SOLUTIONS

PM-LV48100-3U is a rack type module used in household, community and small commercial energy storage system, safe and good expansion. This module can be connected directly in parallel for simple stack use or built in cabinet to meet the needs of different users.

Features & Advantages



Standard Design

Standard 19" and 3U Design



Expandable

Capacity up to 76.8kWh



High Safety

LFP & Smart BMS



Wide Compatibility

Compatible with various inverter brands



Automotive Grade Battery Cell



Cost Effective

Technical Parameters

Model	PM-LV48100-3U
Battery Type	LiFePO4
Battery Capacity	100Ah
Nominal Voltage	48V
Working Voltage	37.5~54.75V
Norminal Energy	4.8kWh
Net Weight	40Kg
Dimension [L*W*H]	17.32*16.53*5.28in (440*420*134mm)
Maximum Charge Current	1C/100A
Maximum Discharge Current	1C/100A
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~60°C
Series/Parallel Number	15S1P
Communication	CAN/RS485
Design Life	20 Years
Cycle Life (25°C@40%DOD)	>8000 Cycles
Cycle Life (25°C@80%DOD)	>4000 Cycles
IP Grade	IP21
Scalability	Up to 16 Units in parallel
Color	Black
Warranty Document Supplied	Yes
Alarms	Overcharge/OverDischarge/Overcurrent/ OverTemperature/ShortCircuit
Monitoring & Protection	Built-in smart BMS
Pros	Can be used in both off-grid and hybrid setups, compact design, stack or cabinet installation.
Optional Functions	LCD screen/Circuit breaker
Compatible Inverters	Victron/SMA/Goodwe/SRNE/Solis/SAJ/Grow att/Luxpower/Voltronic/Deye/etc.
Certification & Safety Standard	CE/UN38.3



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PM-LV51100-3U

ENERGY STORAGE SOLUTIONS

PM-LV51100-3U is a rack type module used in household, community and small commercial energy storage system, safe and good expansion. This module can be connected directly in parallel for simple stack use or built in cabinet to meet the needs of different users.

Features & Advantages



Standard Design

Standard 19" and 3U Design



Expandable

Capacity up to 81.92kWh



High Safety

LFP & Smart BMS



Wide Compatibility

Compatible with various inverter brands



Automotive Grade Battery Cell



Cost Effective

Technical Parameters

Model	PM-LV51100-3U
Battery Type	LiFePO4
Battery Capacity	100Ah
Nominal Voltage	51.2V
Working Voltage	40~58.4V
Norminal Energy	5.12 kWh
Net Weight	42Kg
Dimension [L*W*H]	17.32*16.53*5.28in (440*420*134mm)
Maximum Charge Current	1C/100A
Maximum Discharge Current	1C/100A
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~60°C
Series/Parallel Number	16S1P
Communication	CAN/RS485
Design Life	20 Years
Cycle Life (25°C@40%DOD)	>8000 Cycles
Cycle Life (25°C@80%DOD)	>4000 Cycles
IP Grade	IP21
Scalability	Up to 16 Units in parallel
Color	Black
Warranty Document Supplied	Yes
Alarms	Overcharge/OverDischarge/Overcurrent/ OverTemperature/ShortCircuit
Monitoring & Protection	Built-in smart BMS
Pros	Can be used in both off-grid and hybrid setups, compact design, stack or cabinet installation.
Optional Functions	LCD screen/Circuit breaker
Compatible Inverters	Victron/SMA/Goodwe/SRNE/Solis/SAJ/Grow att/Luxpower/Voltronic/Deye/etc.
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