

# Rack Mounted Battery Module

## BMD SERIES



## MAIN FEATURES

- ▶ 3U rack structure design for easy installation
- ▶ Pure sine wave output, can meet various types of requirements.
- ▶ Built-in MPPT solar controller
- ▶ The priority level of photovoltaic, utility power and battery is selectable.
- ▶ It has a wide range of selectable mains input voltage.
- ▶ In built protection for over-discharge, overload, over-temperature, short-circuit protection etc.
- ▶ Cold Start Function supported
- ▶ Supports RS485/CAN/SNMP/Wifi/Bluetooth monitoring function. Compatible with different brands of ESS

## RACK MOUNTED BATTERY MODULE

BMD series Battery Modules are high-performance, scalable, battery storage solutions. The built-in intelligent BMS can protect the battery pack and extend its service life. The modular design allows for flexibility, making it suitable for a broad range of storage applications.

For More about Unipower range of products, visit:

[www.unipowerenergy.com](http://www.unipowerenergy.com)

## Technical Parameter

Model	BMD24-2.5	BMD48-2.5	BMD48-5.0
<b>SPECIFICATION</b>			
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal Battery Voltage	25.6V	51.2V	51.2V
Nominal Capacity(25°C, 0.2C)WH	2560Wh	2560Wh	5120Wh
Operating Voltage Range (Vdc)	22.4 ~ 29.2V	44.8 ~ 58.4V	44.8 ~ 58.4V
Float Charge Voltage(Vdc)	28V	56V	56V
Recommended Charge Current (A)	50A	25A	50A
Max. Charge/ Discharge Current(A)	100A	50A	100A
Peak Discharge Current(A)	150A 1Sec.	100A 1Sec.	150A 1Sec.
Battery pack round trip efficiency	95%	95%	95%
Depth Of Discharge	80%	80%	80%
Cycle Life(+25°C 0.2C 80% DOD)	6000 Cycles	6000 Cycles	6000 Cycles
Communication function	RS485/CAN/UART/SNMP/Wifi/Bluetooth		
Display	LED* 5 (LCD Display optional)		
Scalability	Upto 8	Upto 8	Upto 8
Cooling Method	Natural Convention		
Installation Location	Indoor	Indoor	Indoor
<b>PROTECTION</b>			
IP degree	IP20	IP20	IP20
Safety standard	UN38.3,MSDS,CE		
Protection	Overcharge protection\Overdischarge protection\Overcurrent protection\Shortcircuit protection\Overtemperature protection		
<b>AMBIENT</b>			
Noise Emission	< 40dB(1 meter)		
Operating temperature	-10°C ~ +50°C		
Storage temperature	-20°C~55°C		
Humidity	0 ~ 95%(no condensation)		
Operation Altitude	<3000m		
<b>PHYSICAL</b>			
Demension(L*W*H)(mm)	L405*W483*H178mm	L405*W483*H178mm	L655*W483*H178mm
Weight(NW Kg)	35kg	35kg	72kg
Weight(GW Kg)	39kg	39kg	78kg