

48v 100Ah

LiFePo4 Rack Storage System Modular

Application Scenarios

- Backup Power Supply For FTTB、FTTH、ONU、EPON
- applicable to stable grid, off-grid and other scenes

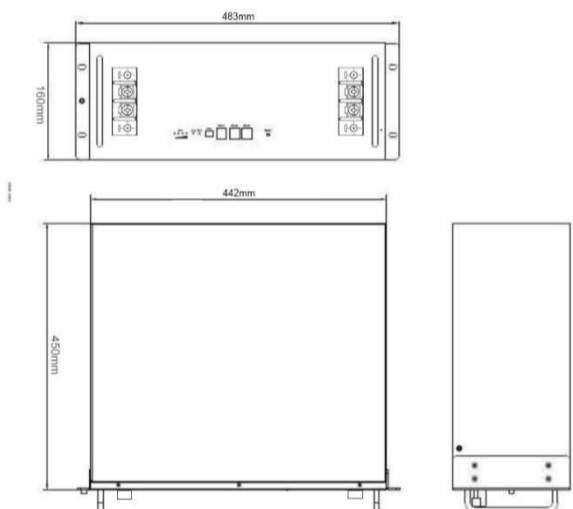
Key advantages

- High energy density: more energy with less weight and footprint
- High charge and discharge currents (short charge period)
- Long battery life (up to 3 times the battery life of a conventional battery)
- High efficiency between charging and discharging
- Higher continual power available
- Wide operating temperature
- Predictable end of life due BMS controller
- Multiple anti-theft solutions (optional): software, gyroscopematerial, etc.
- Other functions (optional): Heating/LCD/Dry Contact

Product Certificates

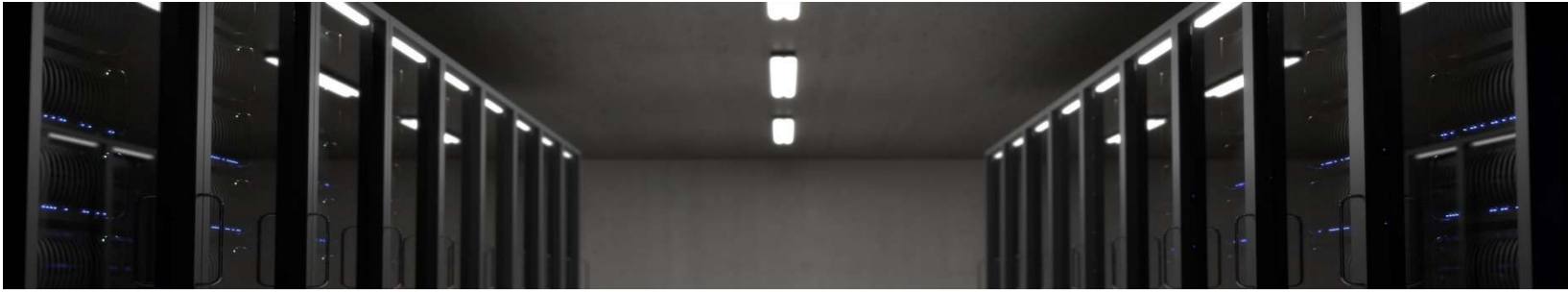
- CE
- UN38.3
- UL
- IEC62619
- IEC62368

Overall dimensions



Technical Parameters

Item	Parameters		
1. Performance parameters			
Model	15S	16S	
Nominal voltage	48V	51.2V	
Rated capacity	100Ah(C ₅ , 0.5C to 40V at 25 °C)		
Operating voltage range	40V-56.4V	42V-57.6V	
Boost charge/Float charge voltage	54.5V/52.5V	57.6V/54V	
Charging current (current-limiting)	20A	20A	
Charging current (Maximum)	100A	100A	
Discharge current (Maximum)	100A	100A	
Discharge cut-off voltage	40V	40V	
Dimensions	Width	442±1mm	442±1mm
	Height	160±1mm	160±1mm
	Depth	450±1mm	450±1mm
Weight	About 46±1kg	About 48±1kg	
2. Function Description			
Installation method	Rack mounted / Wall mounted		
Communication interface	RS232/RS485*2/		
Indicator state	ALM/RUN/SOC		
Parallel communication	Maximum support for 16 sets of parallel		
Terminal stud	M8		
Alarm and protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.		
3. Working Condition			
Cooling mode	Self-cooling		
Altitude	≤4000m		
Humidity	5%-95%		
Operating temperature	Charge	-0°C~+55°C	
	Discharge	-10°C~+50°C	
Recommended operating temperature	Charge	+15°C~+35°C	
	Discharge	+15°C~+35°C	
	Storage	-20°C~+35°C	



CMX 48100 series Constant Current Discharge Characteristics (25°C,77°F)

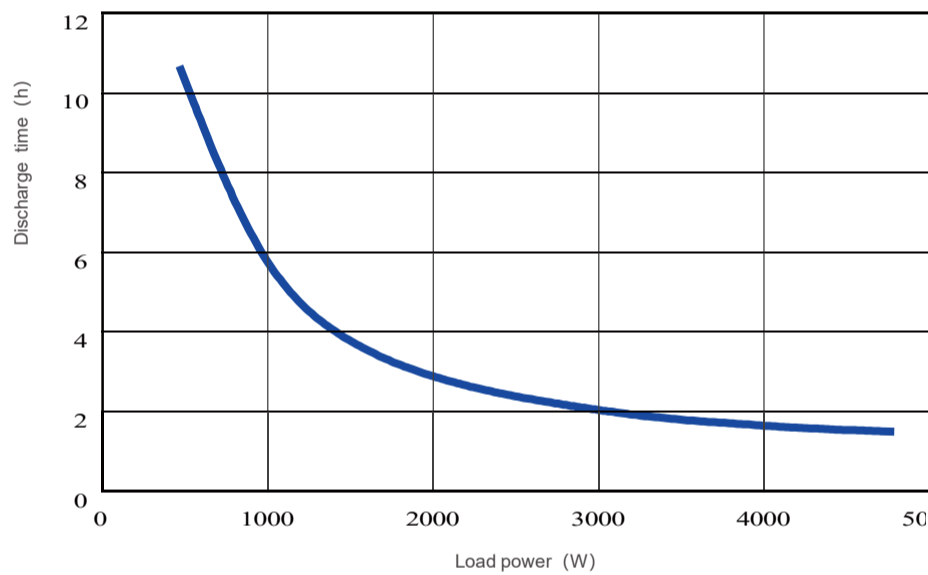
Voltage	Current/A										
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C	
46.5V	9.55	4.7	3.04	2.2	1.67	1.33	1.06	0.87	0.69	0.54	
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72	
43.5V	10.12	4.97	3.27	2.42	1.9	1.55	1.3	1.13	0.99	0.87	
42.0V	10.3	5.1	3.34	2.47	1.95	1.62	1.36	1.18	1.03	0.92	
40.0V	10.5	5.2	3.41	2.54	2	1.65	1.4	1.22	1.07	0.95	

CMX 48100 Constant Power Discharge Characteristics (25°C,77°F)

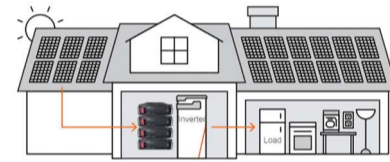
Voltage	Power/W										
	480	960	1440	1920	2400	2880	3360	3840	4320	4800	
46.5V	9.54	4.69	3.02	2.18	1.65	1.32	1.05	0.86	0.68	0.53	
45.0V	9.88	4.85	3.17	2.32	1.8	1.47	1.22	1.01	0.85	0.7	
43.5V	10.1	4.95	3.24	2.41	1.89	1.53	1.28	1.11	0.98	0.86	
42.0V	10.28	5.1	3.33	2.43	1.92	1.58	1.31	1.15	1.01	0.9	
40.0V	10.35	5.15	3.37	2.44	1.95	1.6	1.35	1.18	1.04	0.92	

Discharge Curves

CMX-48100 Discharge time at different load power



Here's how it works



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