

BM100
BP100-2VT/BP100-12VT

SIMPLE WAY TO MONITOR BATTERIES

Ensuring multiple batteries are optimally charged and ready for use

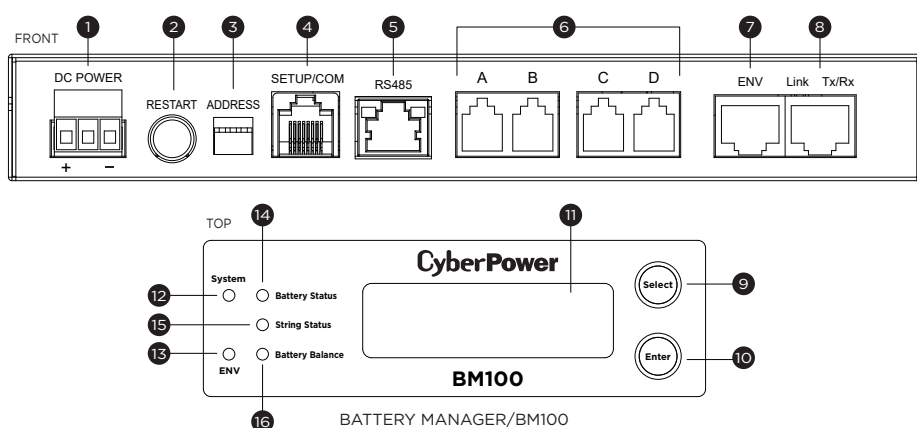
Designed for battery management and monitoring, the Battery Management System Series consists of Battery Manager and Battery Probes. The system provides a proactive approach to battery reliability, reducing the risk of downtime by ensuring the batteries are optimally charged and ready for use. The system detects weak batteries early, helping to prevent damage across the entire battery string, thus extending battery lifespan, maximizing performance, and lowering maintenance costs. The system can monitor up to 4 strings of batteries and equalize each battery's voltage to enhance battery performance. Selected products feature wireless communication to make wiring and installation easier.

SERIES FEATURES

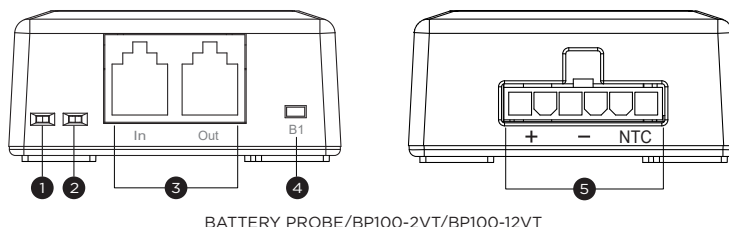
- Reduce Risk of Downtime
- Battery Voltage/Temperature/Resistance/SOC/SOH Monitoring
- Support Multiple Management Interface
- Low Power Consumption
- User-friendly Web Interface
- Support Environmental Sensor
- Historical Battery Data Storage
- Battery String Voltage Equalization
- Automatic Event Notification
- Battery Analysis at Selectable Intervals
- Wide Operating Temperature
- User-upgradeable Firmware

PRODUCT CALLOUTS

1. DC POWER Connector
2. RESTART Button
3. ADDRESS
4. SETUP/COM Port (RJ45)
5. RS485 Port
6. String A/B/C/D Port (RJ25)
7. Environmental Sensor Port
8. Ethernet Port (RJ45)
9. Select Button
10. Enter Button
11. Multifunction LCD Readout
12. System Status Indicator
13. Environmental Sensor Indicator
14. Battery Status Indicator
15. String Status Indicator
16. Battery Balance Indicator

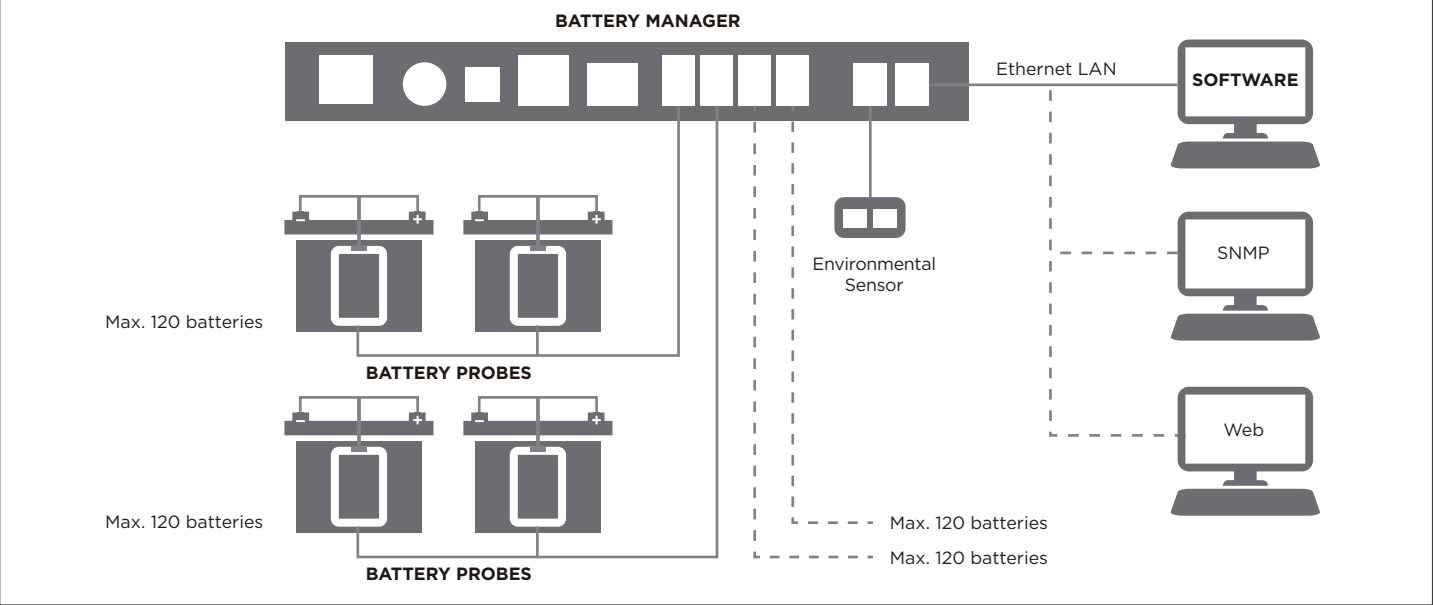


1. Battery Status LED Indicator
2. Power and Communication Status LED Indicator
3. In/Out Ports (RJ25)
4. Communication Test Button
5. Battery Connector





What makes up the Battery Management System?



TECHNICAL SPECIFICATIONS

Model Name	BM100
General	
Input DC Voltage Range (Vdc)	15 - 60
Power Consumption (W)	4
Number of Monitored Strings (PCS)	4
Number of UPS (Charger) Support per Battery Manager (PCS)	1
Number of String Batteries (PCS)	1-480 (1 string) 1-240 (2 strings) 1-120 (3 strings) 1-120 (4 strings)
Management & Communications	
LCD Panel	Yes
LED Indicators	System, ENV, Battery Status, String Status, Battery Balance
Connection Ports for Battery Manager and Battery Probes	Yes - via RJ25
Network Port	RJ45 - 10/100Mbps Ethernet
RS485 Port	Yes - MODBUS RTU
Supported Protocols	IPv4/v6, SNMPv1/v3, HTTP/HTTPS, TCP/IP, UDP, DHCP, NTP, DNS, SMTP, SSH, SSL, TLS 1.2, Telnet, FTP, MODBUS TCP and Syslog
Authentication	RADIUS, LDAP, LDAPS, Windows AD
Environmental Sensor Supported	Yes
Power Management Software	PowerPanel Battery Management ¹
Physical	
Color	Black
Physical Size	
Dimensions (WxHxD) (mm.)	210 x 29 x 100
Weight (kg.)	0.573
Shipping Dimensions	
Dimensions (WxHxD) (mm.)	247 x 75 x 149
Weight (kg.)	0.967
Environmental	
Operating Temperature (°C)	-40 - 60 (LCD Readout: -20 - 60)
Operating Relative Humidity (Non-condensing) (%)	0 - 90
Operating Elevation	0-9,843 feet (0-3,000 meters)
Certifications	
Certifications*	CE, FCC Class A
RoHS	Yes

^{*}Certifications may vary according to different regions. Visit www.cyberpower.com for more information.
[#]All specifications are subject to change without notice.
¹Support centralized management of multiple battery managers with configurable alarm thresholds, email alerts, daily and monthly event statistics, and battery performance analysis.

Model Name	BP100-2VT	BP100-12VT
General		
Input DC Voltage Range (Vdc)	1.2 - 4	8 - 16
Power Consumption (mW)	< 90	< 60
Internal Resistance Resolution (mΩ)	0.001	0.01
Voltmeter Resolution (mV)	1	10
Voltmeter Accuracy	±0.5% <2V ±0.2% (2V - 3V) ±0.5% >3V	±0.2%
Temperature Resolution (°C)	0.1	
Temperature Accuracy (°C)	0 - 100°C ± 1°C -40 - 0°C ± 2°C	
Battery		
Battery Rating Voltage (Vdc)	2	12
Battery Rating Capacity (AH)	200 - 3000	5 - 200
Battery Type	Valve-Regulated Lead-Acid (VRLA), Vented Lead Acid (VLA)	
Battery Resistance Range (mΩ)	0.1 - 6	1.0 - 60
Battery Leakage Current (uA)	< 10	
Circuit Protection	DC fuse	
Charge Balance (mV)	± 15	± 30
Management & Communications		
LED Indicators	Battery Status, Power and Communication Status	
Connection Ports for Battery Manager and Battery Probes	Yes - via RJ25	
Physical		
Color	Black	
Physical Size		
Dimensions (WxHxD) (mm.)	55 x 25 x 80	
Weight (kg.)	0.055	0.057
Shipping Dimensions		
Dimensions (WxHxD) (mm.)	168 x 58 x 164	
Weight (kg.)	0.21	
Environmental		
Operating Temperature (°C)	-40 - 60	
Operating Relative Humidity (Non-condensing) (%)	0 - 90	
Operating Elevation	0-9,843 feet (0-3,000 meters)	
Certifications		
Certifications*	CE, FCC Class A	
RoHS	Yes	

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