

BM100  
BP100-2VT/BP100-12VT

**SIMPLE WAY TO  
MONITOR BATTERIES**

### Ensuring multiple batteries are optimally charged and ready for use

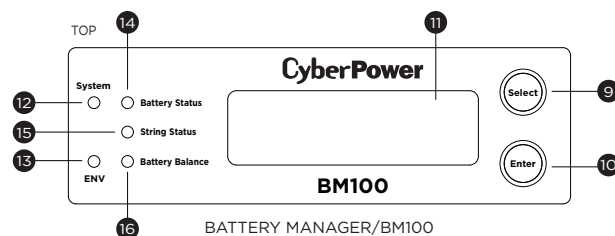
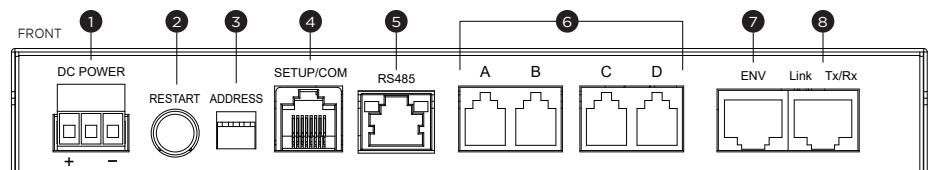
Designed for battery management and monitoring, the Battery Management System Series consists of Battery Manager and Battery Probes. The system provides a proactive approach to manage and monitor the battery system, eliminating the risk of downtime by ensuring the batteries are optimally charged and ready for use. The systems detect the weak batteries early to reduce the possibility of damage to the entire battery strings, thus extending the battery lifespan, maximizing the battery performance, and delivering a reduced cost of maintenance. The battery management systems can monitor up to 480 batteries and equalize each battery's voltage to enhance battery performance.

#### SERIES FEATURES

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

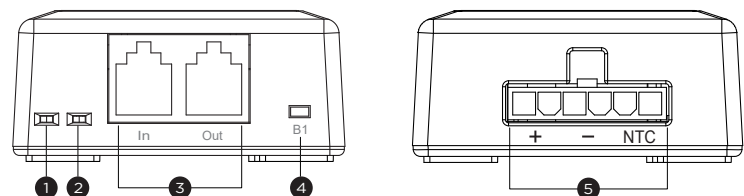
#### PRODUCT CALLOUTS

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. ENVIROSENSOR Port
8. Ethernet Port (RJ45)
9. Select Button
10. Enter Button
11. Multifunction LCD Readout
12. System Status Indicator
13. ENVIROSENSOR Indicator
14. Battery Status Indicator
15. String Status Indicator
16. Battery Balance Indicator



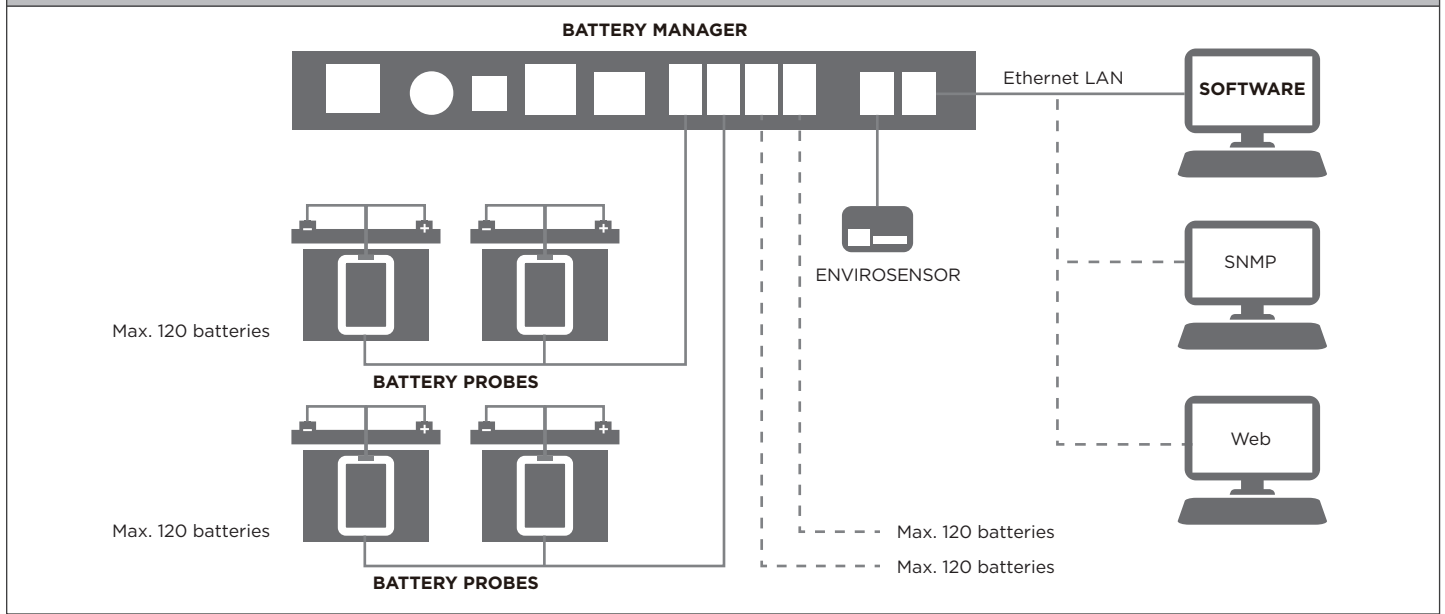
BATTERY MANAGER/BM100

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



BATTERY PROBE/BP100-2VT/BP100-12VT

## What makes up the Battery Management System?



## TECHNICAL SPECIFICATIONS

Model Name	BM100
<b>General</b>	
Input DC Voltage Range (Vdc)	15 - 60
Power Consumption (W)	4
Number of Monitored Strings (PCS)	4
Number of String Batteries (PCS)	120
<b>Management &amp; Communications</b>	
LCD Panel	Yes
LED Indicators	System, ENV, Battery Status, String Status, Battery Balance
Connection ports to 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
<b>Physical</b>	
Color	Black
<b>Physical Size</b>	
Dimensions (WxHxD) (mm.)	210 x 29 x 100
Weight (kg.)	0.573
<b>Shipping Dimensions</b>	
Dimensions (WxHxD) (mm.)	247 x 75 x 149
Weight (kg.)	0.967
<b>Environmental</b>	
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)
<b>Certifications</b>	
Certifications*	CE, FCC Class A
RoHS	Yes

\*Certifications may vary according to different regions. Visit [www.cyberpower.com](http://www.cyberpower.com) for more information.  
#All specifications are subject to change without notice.

Model	BP100-2VT	BP100-12VT
<b>General</b>		
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	± 0.2% (2V-3V) ± 0.5% Full Range	± 0.2% Full Range
Temperature Resolution (°C)	0.1	
Temperature Accuracy (°C)	0 - 100°C with accuracy ± 1°C -40 - 0°C with accuracy ± 2°C	
<b>Battery</b>		
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 (μA)	< 10	
Circuit Protection	DC fuse	
Equalization Acceptable Voltage (Vdc)	2.2 - 2.8	> 13.2
Charge Balance (mV)	± 15	± 30
<b>Management &amp; Communication</b>		
LED Indicators	Battery Status, Power and Communication Status	
Connection Ports to Battery Manager and Battery Probes	Yes - Via RJ25	
<b>Physical</b>		
Color	Black	
<b>Physical Size</b>		
Dimensions (WxHxD) (mm.)	55 x 25 x 80	
Weight (kg.)	0.055	0.057
<b>Shipping Dimensions</b>		
Dimensions (WxHxD) (mm.)	168 x 58 x 164	
Weight (kg.)	0.21	
<b>Environmental</b>		
Operating Temperature (°C)	-40 - 60	
Operating Relative Humidity (Non-condensing)(%)	0 - 90	
Operating Elevation	0-9,843 feet (0-3,000 meters)	
<b>Certifications</b>		
Certifications*	CE, FCC Class A	
RoHS	Yes	

\*Certifications may vary according to different regions. Visit [www.cyberpower.com](http://www.cyberpower.com) for more information.  
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