இ ஊ்க ா Box BMM - Battery Monitoring Module

Description

E-T-A n|BoxBMM monitors battery cells performance status. The realtime status record and alarm provide effective solution to maintain battery performance over its lifetime.

n|Box BMM comes in 2 types. BMM cells to measure individual battery cells and BMM string to measure a group of battery cells.

The battery status, alarms, and reports can be viewed in web dashboard. The system can be set to send mobile notifications in the event of failure.

BMM: Battery Monitoring Module



The Battery Monitoring System typically consists of:

- n|Box BMM Cell monitors voltage, temperature, liquid level, and impedance on each battery cells.
- n|Box BMM String monitors voltage and current in a group of battery cells.
- n|BoxIoTNode communication gateway to web dashboard.

An n Box loT Node unit can manage up to 160 string and cell units.

Applications

Data center and UPS, Base Transceiver Station (BTS), Building Automation, Telecom Infrastructure, Solar Powered Infrastructure.

Features and Benefits

- Compact portable universal mount box
- · Online monitoring with web dashboard
- Mobile notification to Android / iOS devices
- Wireless communication
- Data Logging
- SNMP, Modbus interface ready with n|Box IoT Node
- Technical support
- Customizable data visualization
- Customizable reports
- Local HMI display (custom request)

Ordering inform	Ordering information		
Type No.			
IOT05A - X - C - 01	BMM Cell		
IOT05A - X - S - 01	BMM String		









Technical data		
Hardware		
Voltage Supply Rating	DC 9 24V, 24 75V	
Current Supply Rating	Sleep mode: 5mA Normal mode: 100mA	
Voltage sensor	1 channel cell: DC 0 2V, 8.5 18V string: DC 20 75V, 260 750V (accuracy ± 0.5%)	
Current sensor	1 channel (BMM String) 400 A, 800 A (accuracy ± 1%)	
Temperature sensor	1 channel (BMM cell) NTC: 0 70°C (accuracy ± 0.1°C)	
Liquid sensor	1 channel (BMM cell) Non intrusive	
LED	Power LED	
Processor	32-bit	
Memory	4 MB	
Connectivity	WiFi 2.4 GHZ IEEE 802.11b/g/n	
Digital Output	1 channel (dry contact)	
Internal Resistance	20 mΩ	
Protection	Overvoltage Overcurrent Reversed polarity	

Software

HTTP / HTTPS	Unit web access	
	Server web access	
Mobile Notification	Telegram Apps (Android / iOS)	
SNMP	SNMP V2C / V3	
Modbus	Modbus RTU over RS-485 Modbus TCP over Ethernet / WiFi	

General

Enclosure	Plastic
Flame rating	UL94V-0
Mount	Portable universal mount
Color	Black
Dimension (mm)	63.5 x 63.5 x 22.9
Mass	Appr. 180 g
Operating temperature	-10+50 °C
Storage temperature	-30+70 °C

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Dimension and Type





Device Type

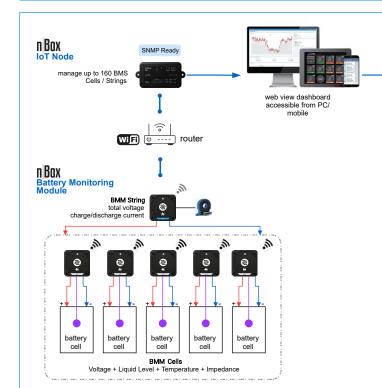
IOT05A-X-S string

Mobile notification

IOT05A-X-C cell

This is a metric design and millimeter dimensions (mm)
The dimension is not binding and there might be further updates

Application Example



In Battery monitoring application, BMM cells monitor individual battery cells status and performance, including voltage level, temperature, liquid level, and impedance.

While BMM strings monitor the battery group voltage and current. The BMM string units also can be deployed to monitor voltage and current of particular load groups or equipment connected to the battery.

IoT node will serve as data aggregator to send periodic data and immediate event notification to the server





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