② E 「小人」 I 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

System

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 Box loT Node communication gateway to web dashboard.

An nBox 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 information

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





NBOX BMM

Technical data

Hardware	
Voltage Supply Rating	+9 V +24 V DC
Current Supply Rating	Sleep mode: 5mA Normal mode: 100mA
Voltage sensor	1 channel cell: 0 3.3 V DC 8.5 18 V DC string: 260 750V DC
Current sensor	1 channel (BMM String) 400 A
Temperature sensor	1 channel (BMM cell) NTC
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
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

Dimension and Type



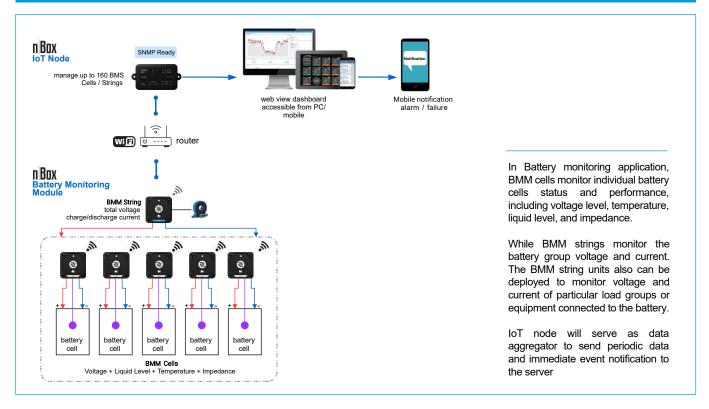


IOT05A-X-S string IOT05A-X-C cell

Device Type

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

Application Example





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