

# Battery Monitoring System

## H3G-TA BMS



### APPLICABLE FIELDS

Designed for single battery monitoring. TA module advanced patented technology provides the most comprehensive stationary battery health analysis in the industry.

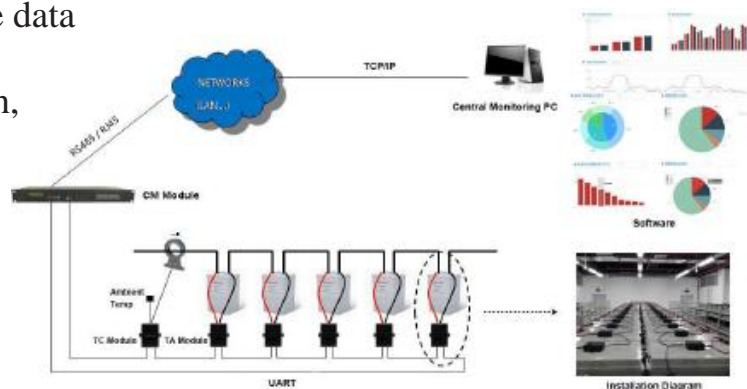
### CHARACTERISTICS

- Continuous 24/7 online monitoring
- One TA module device per battery to monitor internal resistance, voltage and temperature
- Software is available to retrieve data from TA module
- Serial port with optical isolation, meets Modbus specification
- Interfaces with most UPS controllers
- User-friendly installation



### CHARACTERISTICS

- Full resistance, battery temperature and voltage monitoring for comprehensive battery state of health analysis
- String current and ambient temperature monitoring (requires TC module)
- Automatic analysis of battery monitoring data to identify the batteries that need replacement or maintenance (requires CM module)
- All operating parameters can be set via the serial bus
- Panel lights indicate when alarm is raised, which can also be read via the serial bus
- Store historical data, including up to 24 battery voltage readings; 720 string voltage readings; 12 internal resistance readings; 15 temperature readings; 100 alarms and 50 events
- PC software is available for management of multiple strings, real-time querying and historical data



# Battery Monitoring System

## H3G-TA BMS



### SPECIFICATIONS

Module	TA	TC	CM
Power Requirements	battery-powered, less than 13mA (1.2V, 2V) or 7mA(6V&12V) quiescent	8~13VDC, 2W	100~240VAC, 110V~370VDC (standard), DC48V(36-72VDC), 15W
Communications Interfaces	UART port, support Modbus protocol		RS485, 10/100M LAN port, meets Modbus/ RTU, Modbus/TCP and SNMP protocols (Max. support 6 strings or 960 cells)
Weight	80g	75g	1.8Kg
Environmental			
Operating temperature	-10°C~50°C		
Relative humidity	5%~95%		
Atmospheric pressure	80~110kPa		
Measurement Range & Accuracy			
String voltage	20~800V; $\pm 0.5\%$ ; 0.1V		
Cell voltage	1.2V, 2V, 6V, 12V; $\pm 0.1\%$ ; 0.001V		
Internal resistance	50~65535 $\mu\Omega$ , $\pm 2\%$ , 1 $\mu\Omega$		
Battery temperature	-5°C~99.9°C, $\pm 1^\circ\text{C}$ , 0.1 °C		
String current	0~1000A, $\pm 1\%$ (Full scale), 0.1A		
Insulation	2000VAC		
Usage	1.2V, 2V, 6V or 12V batteries, capacity less than 3000AH		
Installation	Mount on battery or DIN rail		
Protection	Photoelectric isolation and reverse connection protection		
Standards	EMC: EN61326-1:2013 EN61326-2-1:2013 Safety: EN61010-1:2010 UL61010-1:2013 UL, CE, RoHS certification		
OPTIONS			
PC software available to retrieve and display, data from CM module			
APPLICATIONS			
UPS, Telecommunications, Battery supplied applications, Utilities, Fire & Safety systems, Remote monitoring			

### Sales office

Block 24, Sin Ming Lane #05-107 Midview City Singapore 573970  
Tel No: (+65) 66775598  
E mail : sammi@marstech.com.sg