



## KOKII TBS-2 FOR TELECOM BASE STATION

Measure cell impedance online  
24\*7 Automatic test cell voltage and alarm  
One set monitoring two strings  
Cost effective

### Key Functions

#### Monitoring Items

- Cell Voltage
- Cell Internal Resistance(IR)
- String Voltage
- String Charge & Discharge Current
- String Ambient Temperature

#### Alarm Items

- String Charge Voltage High/Low
- Discharge Current High(Optional)
- Charge Current High(Optional)
- String Over-discharge
- Cell Charge Voltage High/Low
- Cell IR Over Limit
- Cell Over Discharge
- Cell Short Circuit
- Cell Open Circuit

System Model: TBS-1(24 cells 1 string)  
TBS-2(24 cells 2 string)

Capacity of the battery: 7Ah-500Ah  
Voltage of the battery: 2V

Recommend Application: mobile phone Base station of Telecommunications

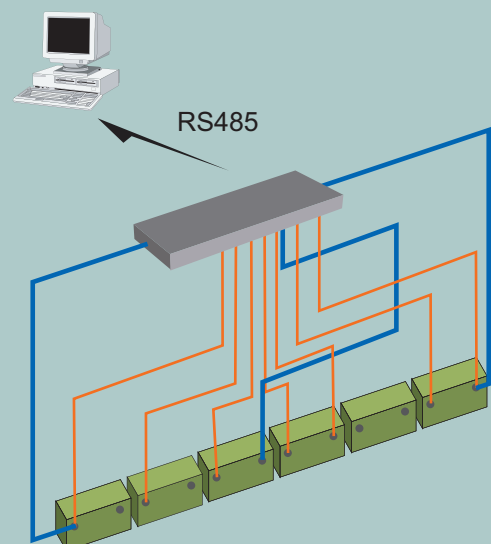
### Features

TBS-2 has been designed specifically for telecom base stations. Each module can monitor 2 sets of 24-cell batteries within 500Ah. Besides the precise Internal Resistance measurement, the TBS series product provides powerful network connectivity. It brings down the cost of battery monitoring and maintenance for remote stations.

TBS communicates to PC through standard Modbus RTU protocol to Battery Analyzer 3.0 software which provides real-time data chart and stores history trends for analysis.

TBS compact design fits the scanning and IR signal generation into the slim 19" standard 1U rack case.

### System Scheme



## Specifications



TBS-2 Module

TBS-2	
Operating voltage	48VDC
Scan Channel Max	2 strings 48 cells
Isolation Protection	> 5M $\Omega$
Dielectric Strength	50Hz 1500V/min
Leak Current	< 5mA
Grounding	Less than 0.5 $\Omega$
Interface	RS232
Dimension	443 W * 272 D * 42 H (mm)

### \*Option



Functional Specifications	
Cell Voltage	0 ~5VDC
Voltage Accuracy	0.5%
Internal Resistance Range	0~5 m $\Omega$
Internal Resistance resolution	0.001m $\Omega$
String Voltage	0 ~120VDC
Voltage Accuracy	0.5%
String Current Range	0~200A(Optional)
Current Accuracy	0.1% + sensor accuracy
Ambient Temperature Range	5 $^{\circ}$ C~45 $^{\circ}$ C
Temperature Accuracy	$\pm$ 1 $^{\circ}$ C