

ZJB-101 110V/220V Battery Online Monitor



Description

ZJB-101 online monitoring system consists with battery cell acquisition module and monitoring host device. It provide real-time string voltage, charge / discharge status detect, export current, cell current & voltage, internal resistance etc. It also provide automatic balance function of battery cell, to keep the voltage at a reasonable float charging range, prolong the service life of the battery.

Comm port allow build remote monitor system, provide reliable and effective management method for the battery bank management, reduce risk of power interruption caused by power failure.

Main Features

- Independent sampling channel, fuse to protect battery safety.
- Cell monitoring module equipped external temperature sensor.
- Automatically switch three working modes: Equalization operations , Internal resistance test, Voltage and temperature monitoring.
- Automatic determine battery opened loop or offline status.
- Detect and display charge and discharge capacity of the battery bank.
- Alarm record with time stamp for battery unexpect status, minimum 1min record interval for all battery cell.
- 4.0 inch TFT screen.
- USB interface for export record data.
- Provide Visual & sound alarm notice, with DO passive node for connect other device.
- Ethernet interface, RS232 and RS485 interfaces for build SCADA.

Technical characteristics

Battery bank monitoring	
Voltage	0~999.99V
Accuracy	0.10%
Current	0~999.99A
Accuracy	±0.5% for Shunt, ±1% for Hall CT
Battery cell monitoring	
Cell voltage	0~20.000V
Accuracy	0.1% @ ±30% rated voltage
Cell internal resistance	0~65535uOhm
Accuracy	5%
Cell temperature	0-99.9°C
Accuracy	±0.5°C
Call capacity display	9999.9AH @ 1Sec detect interval
Others	
Float charging equalization	10mV
Battery cell qty	≤240cells
Cell rated voltage	2V, 4V, 6V, 12V
System info record	1000lists
Alarm info display	240lists
Alarm info record	1000lists
Working voltage	AC220V & DC110/220V
Communication interface	RS485 / RS232 / Ethernet optional

ZJB-DT Battery Bank Discharge Tester



Description

ZJB-DT is highly intelligent battery charge and discharge tester. It can be used as the discharge load in the battery off-line state, and realize the constant discharge of the set value by continuously regulating the discharge current. the tester records all valuable and continuous real-time data during the process.

Friendly HMI provide a variety of configuration and data review, user can download record data to USB. PC host operation software can generate the curves and reports needed.

Main Features

- Intelligent SCM ARM control, 7-inch 1024*600 LCD display.
- Discharge load use PTC ceramic resistor, avoid red heat for a safer discharge process.
- Remote battery data collector use wireless, multiple band design for 4 device working in one site.
- Each device support max 25 cell collection boxes, each box connect 12 batteries, total 300 battery cell detecting.
- User free to configuration charge/discharge termination threshold.
- Provide software export record & curve report for further analysis.
- Various alarm function, provide automatic protection in over-temperature /voltage/current status.
- With RS485 port for remote control.

Technical characteristics

Battery Bank Voltage	DC110V or DC220V
Charge/discharge voltage	DC88V-264V
Charge/discharge current	Charge 60A; Discharge 60A
Power Supply	AC220V (-20%~+30%)
Battery cell voltage	2V/4V/6V/12V optional Max 300 batteries
Control precision	Discharge current $\leq \pm 1\%$; Group terminal voltage $\leq \pm 0.1\%$; Cell voltage $\leq \pm 0.05\%$
communication	RS485+ USB interface
Data storage capacity	8G SD card and 16G USB flash drive
Temperature & Humidity	-5-50°C, 0-90% (40±2°C)
Elevation	Rated elevation of 4000m
Working mode	Standalone mode; Parallel master mode; Parallel slave mode; Remote controlled mode
Protection performance	Over voltage protection; Under voltage stop; Over current protection; Over temperature protection; Wiring reversed protection

KP series Nickel-cadmium Battery



Description

KP series nickel-cadmium pocket type can be divided into low rate (KPL), medium rate (KPM) and high rate (KPH) based on their discharge current. It tailored for superior performance at high temperature, high discharge, fast charge, long-term float or trickle charge.

They have advantage of high power and energy density, high efficiency of charge/discharge, a low cycle life, usually used for Railway DC power supply, Wind-energy/Solar systems, Telecom station, Lighting, UPS, Transport Vehicles etc.

Main Features

- Large range of working temperature, -25°C to 45°C.
- Long service life: more than 20 years.
- Excellent charging efficiency and low rate of self discharge.
- Low maintenance cost and replacement cost.
- High resistance to mechanical and electrical abuse.

Technical characteristics

Model	KPL Series	KPM Series	KPH Series
Battery Type	Low Discharge Rate	Medium Discharge Rate	High Discharge Rate
Rated Capacity (Ah)	10-1200Ah	10~1100Ah	10~400Ah
Discharge Rate	0.5C 5A	3.5C 5A	7.5C 5A
Nominal Voltage (V)	1.2V		
Discharge Performance	8h @ 0.2C 5A, 20°C		
Float Charging Voltage	1.4 ~ 1.44V		
Charge Method	Constant Current		
Cycle Life	500 to 5000 cycles		
Internal Resistance	Approx. 30mΩ		
Operating Temp.	25±10°C		
Normal Temp.	-25°C to 45°C		
Container Material	ABS/PP optional		
Terminal	M8/M10/M16/M10*1.5/M20*1.5 optional		
Design life	More than 20 years		
Weight(Kg)	1-62KG	1.2-68.3KG	2.15-27KG

DC/DG series AMG/GEL Lead-acid Battery



Description

DC (AGM Deep Cycle) series is specially designed for frequent cyclic discharge. By using strong grids and specially designed active material, the DC series battery offers 30% more cyclic life than the standby series. It is suitable for UPS, solar & wind energy, telecom system, electric power system, electric vehicles, golf cars, etc.

DG (GEL Deep Cycle) series is pure GEL battery with 15~20 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DG series offers excellent recovery after deep discharge under frequent cyclic discharge use, and can deliver 400 cycles at 100% DOD. Suitable for solar, CCTV, marine, RV and deep discharge UPS, communication, and telecommunication, etc.

Main Features

- Sealed (VRLA) AGM/GEL type Batteries.
- Good electrical conductivity and high capacity.
- High current charge-discharge performance.
- Small internal resistance, low self-discharge rate.
- Easy to install design.
- High reliability and safety.
- Deep cycle design, 800cycles~2500cycles.

Technical characteristics

Model	DC Series	DG Series
Battery Type	AGM Deep Cycle	GEL Deep Cycle
Nominal Voltage (V)	2v/6V/12V	6V/12V
Rated Capacity (Ah)	2V@ 200-3000Ah 6V@180-225Ah 12V@26-260Ah	6V@100-335Ah 12V@26-260Ah
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell	
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C /Cell	
Internal Resistance	Approx. 5 mΩ	
Operating Temperature	Discharge: -20°C ~60°C Charge: 0°C ~50°C Storage: -20°C ~60°C	
Terminal	M5/M6/M8 optional	
Container Material	A.B.S. UL94-HB, UL94-V0 Optional	
Design life	12 years	15 years
Weight(Kg)	4.92-13.46Kg	