

ZTmm Precision Power Distribution Rack

The precision power distribution rack (PPR) is a high-precision power distribution cabinet applied to the power management of the data center. Various information of the power supply is collected through highly integrated modules inside the power distribution rack and fed back to the monitoring system, so that the use manager can master the operation status of the power supply in time. Provide power distribution, distribution circuit protection, metering, operation cost management and other services for important equipment in various fields and new generation data center computer room network servers.



● Highlights

High availability

- ◆ Novel and elegant appearance
- ◆ The rack color and style can be customized according to the use environment
- ◆ Support single-sided single main road, single-sided double main road and double-sided double main road layout
- ◆ Flexible incoming and outgoing modes

- ◆ The setting of maintenance surface is flexible and convenient for inspection and maintenance.

Fully enclosed structure and modular design

- ◆ Each functional module is isolated from each other to prevent the operator from directly contacting the bus and prevent foreign matters from contacting the electrical device
- ◆ Protection : IP40
- ◆ All systems comply with the existing national and international standards and specifications, and the components of the products have passed strict quality certification

High integration and performance

- ◆ Advanced DSP full digital control makes the protection system control faster, more accurate and more stable, and comprehensively improves the reliability.
- ◆ The anti-interference ability is enhanced to avoid the inherent hardware parameter drift and other defects of the analog controller and ensure the product consistency.
- ◆ High integration and simplified circuit
- ◆ Good performance and highly integrated products ensure more stable and safe operation of the equipment.



Comprehensive power quality monitoring

It can monitor complete power quality parameter information and provide key data

- ◆ Main circuit measurement parameters include but are not limited to three phase voltage, current, frequency, active power, reactive power, power factor, active electric energy, reactive electric energy, zero ground voltage, neutral line current, total harmonic content (THD), 2nd-63rd harmonic, current voltage unbalance, current K factor (KF), voltage crest factor (CF), telephone waveform factor (thff), peak voltage, voltage and current sequence, ambient temperature and humidity.
- ◆ Branch measurement parameters include but are not limited to voltage, current, frequency, active power, reactive power, power factor, active electric energy, reactive electric energy, 2-31 harmonics

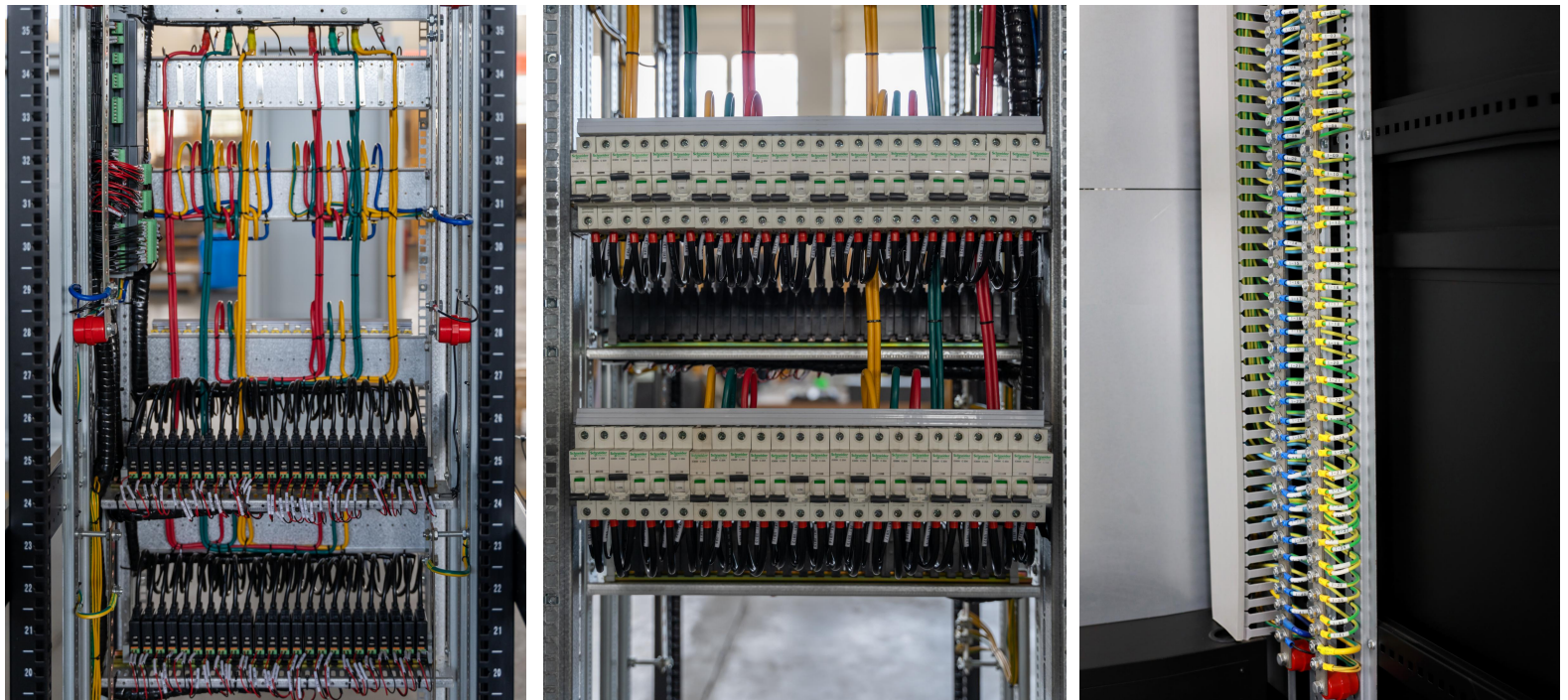


Intelligent management

- ◆ Effective analysis of all power parameters
- ◆ Equipment level energy efficiency management

- ◆ Touch screen visualization
- ◆ Effective management and risk early warning of key data of each loop
- ◆ Provide standardized interfaces to easily connect with third-party systems
- ◆ Provide a variety of alarm modes for fault early warning
- ◆ It is necessary to support the access to the energy management platform to form energy consumption classification, sub item and sub regional statistical analysis for the energy consumption and operation information of the data center, so as to realize the visualization of energy management, find out the blind spots of energy consumption, tap the energy-saving potential, and help customers optimize the use of energy.

- **Internal structure**



● Monitor Screen



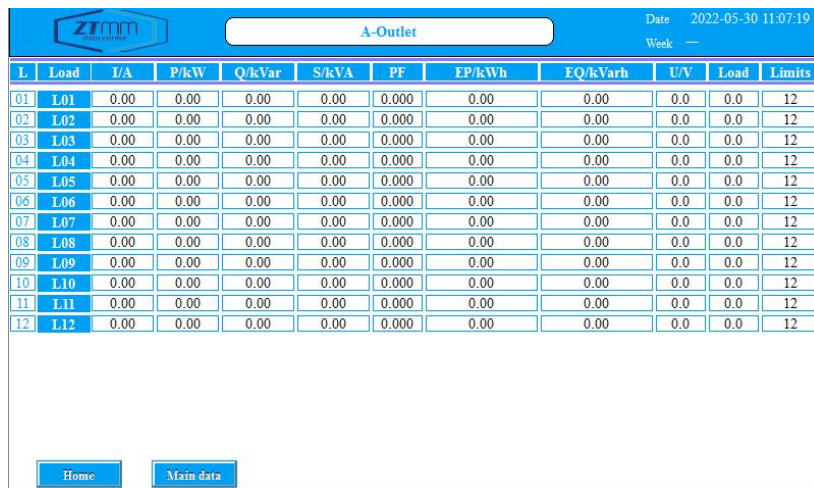
Home Page



Parameter	Phase A/AB	Phase B/BC	Phase C/CA	All/Imbalance%
PhaseU/V	0.0	0.0	0.0	----
LineU/V	0.0	0.0	0.0	nan
Phase I/A	0.0	0.0	0.0	nan
Load Percentage/%	0	0	0	----
ActiveP/kW	0.00	0.00	0.00	0.00
ReactiveP/kVar	0.00	0.00	0.00	0.00
Apparent P/kVA	0.00	0.00	0.00	0.00
Power Factor/φ	0.000	0.000	0.000	0.000
ActiveE/kWh	0.00	0.00	0.00	0.00
ReactiveE/kVarh	0.00	0.00	0.00	0.00
Fre/Hz	0.00	Leakage I/mA	0	----
Zero to Ground U/V	0.0			----
Zero Sequence I/A	0.0			----
Fundamental P/kW	0.00	0.00	0.00	0.00
Harmonic P/kW	0.00	0.00	0.00	0.00
Fundamental Ep/kWh	0.00	0.00	0.00	0.00

Navigation buttons: Home, Outlet, MAX demand, Month Ep, Harmonic, U-chart, I-chart, P-chart, B-Main Data.

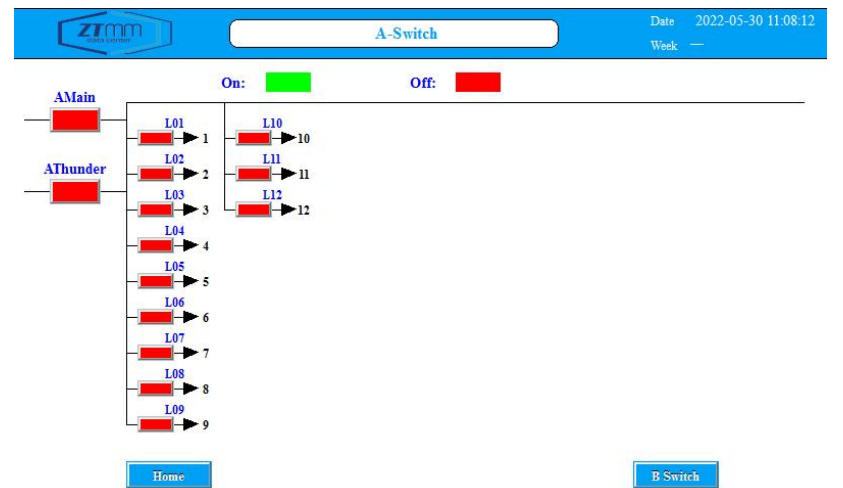
Main Road Parameter



L	Load	I/A	P/kW	Q/kVar	S/kVA	PF	EP/kWh	EQ/kVarh	U/V	Load	Limits
01	L01	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
02	L02	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
03	L03	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
04	L04	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
05	L05	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
06	L06	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
07	L07	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
08	L08	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
09	L09	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
10	L10	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
11	L11	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12
12	L12	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.0	0.0	12

Navigation buttons: Home, Main data.

Branch Parameter



Switch Status

● Specifications

Input Voltage	220/380v, TN-S system
Frequency	50/60Hz $\pm$ 10%
Output Voltage	220V(1Ph+N+PE); 380V (3Ph+N+PE)
Capacity	10~630A
Distribution Architecture	Support single bus, double bus and multi bus systems Branch air switch supports fixed switch, hot plug air switch or hot plug adjustable phase air switch
System Function	three phase voltage, current, frequency, active power, reactive power, power factor, active electric energy, reactive electric energy, zero ground voltage, neutral line current, total harmonic content (THD), 2nd-63rd harmonic, current voltage unbalance, current K factor (KF), voltage crest factor (CF), telephone waveform factor (thff), peak voltage, voltage and current sequence, ambient temperature and humidity
	voltage, current, frequency, active power, reactive power, power factor, active electric energy, reactive electric energy, 2-31 harmonics
Accuracy	Incoming line: voltage / current level 0.2, active power / electric energy level 0.5s, reactive power / electric energy level 1
	Outgoing line: voltage / current level 0.5, active power / active electric energy / reactive power / reactive electric energy level 1
SPD	Standard C-level surge protection: 20KA, 40KA
Display	Standard 7-inch touch screen, optional 10 inch or above
Communication interface	One way RS485 Modbus-RTU
	One way RJ45 10/100m, TCP/IP Modbus Protocol (optional)
Dimension	600/800(W)*1000/1100/1200(D)*2000/2200(H)mm