

CONSNANT®

OUTDOOR HYBRID TELECOM POWER SYSTEM

OD-TRIS Series



Outdoor Hybrid Telecom Power System



OD-TRIS-48100



Product Description

This product integrates the inverter power, rectifier power, photovoltaic power (optional), cooling system, and power and environment monitoring system, providing a safe and reliable operating environment for communication equipment and can be widely used in outdoor communication base station sites.

Application Field

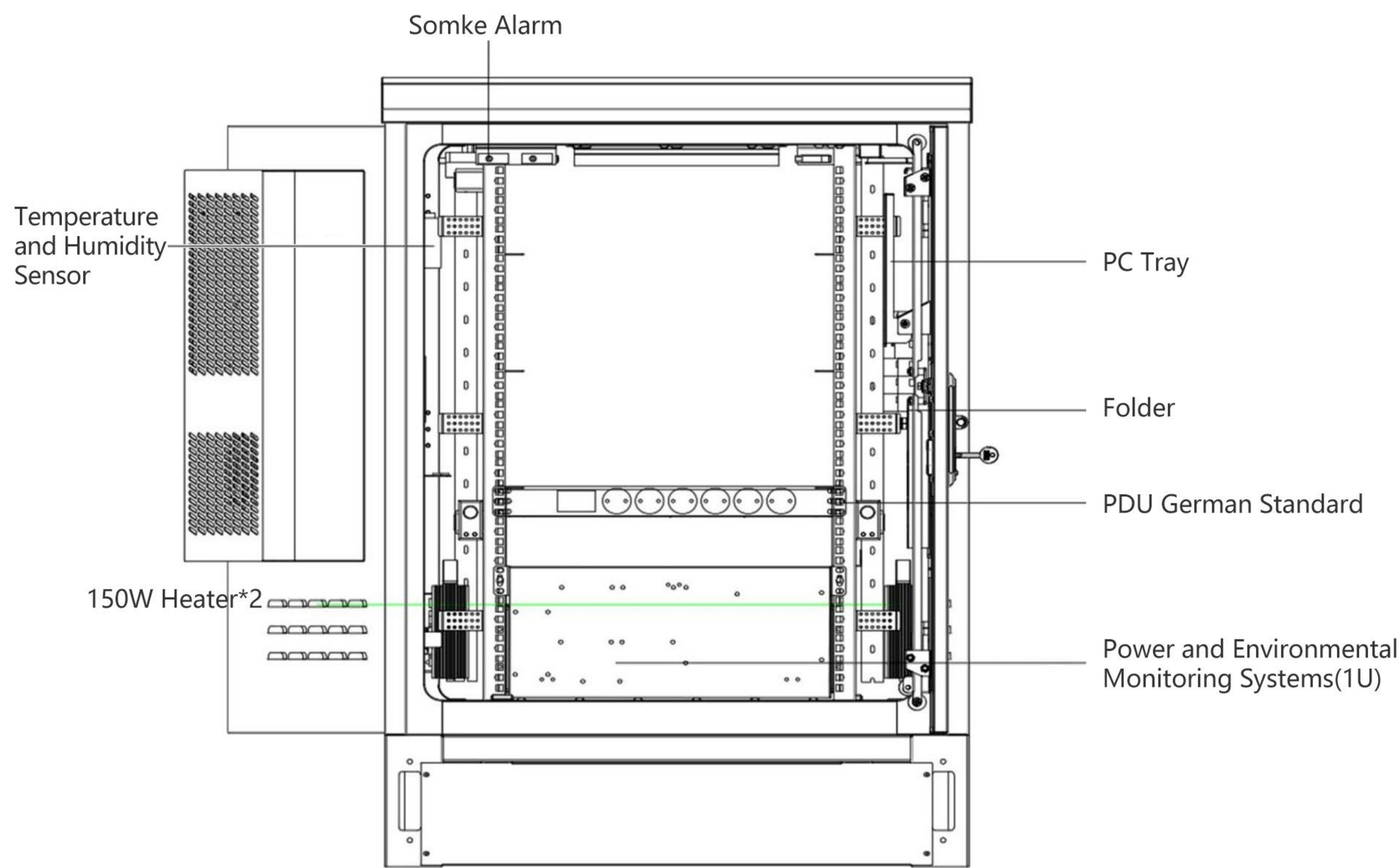
Communication Base Station

The complete components of this product include:

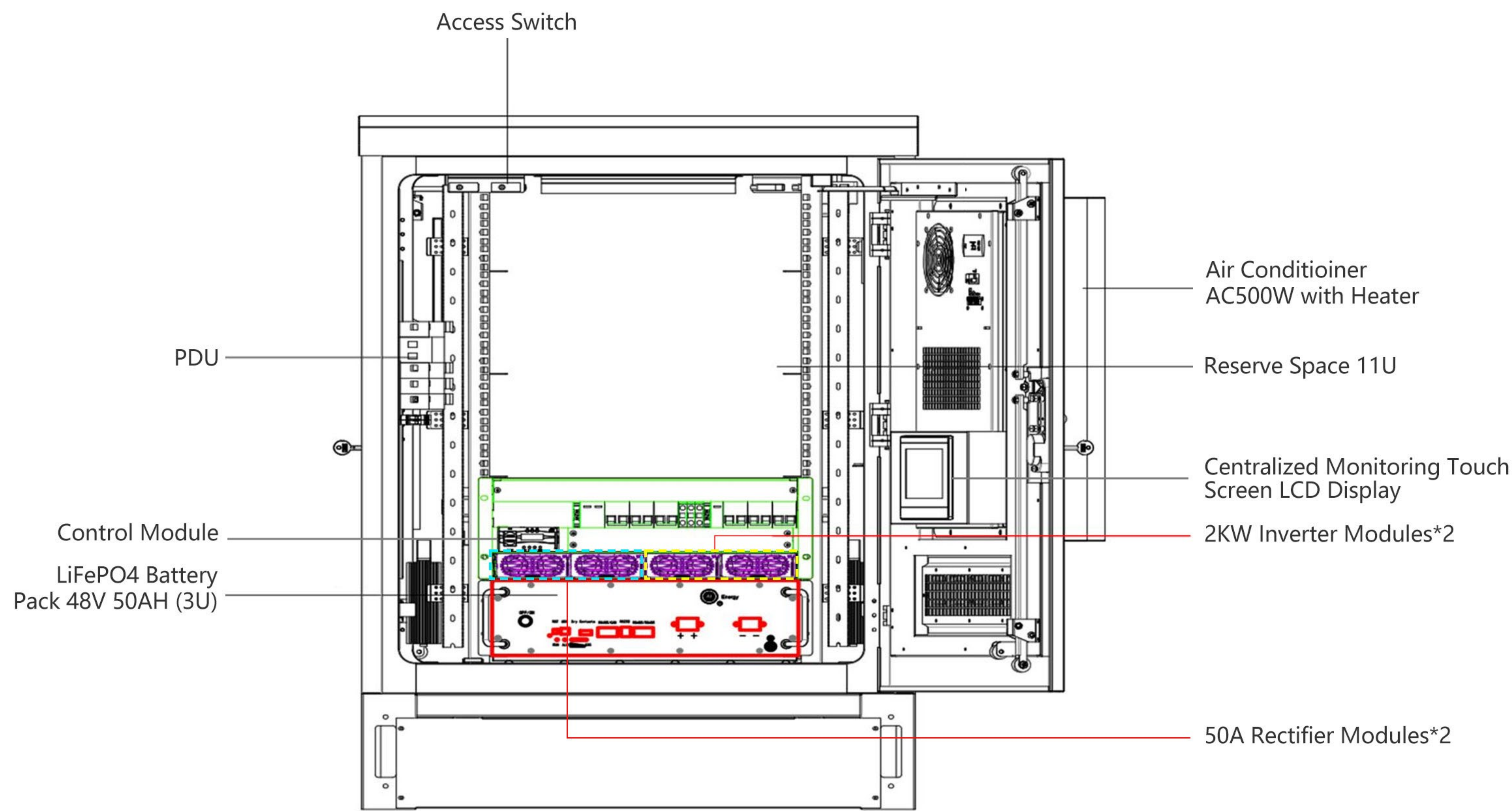
- Cabinet
- Inverter Module
- Rectifier Module
- Lithium battery 48V 50AH
- Monitoring System
- Temperature control system

Composition & Configuration

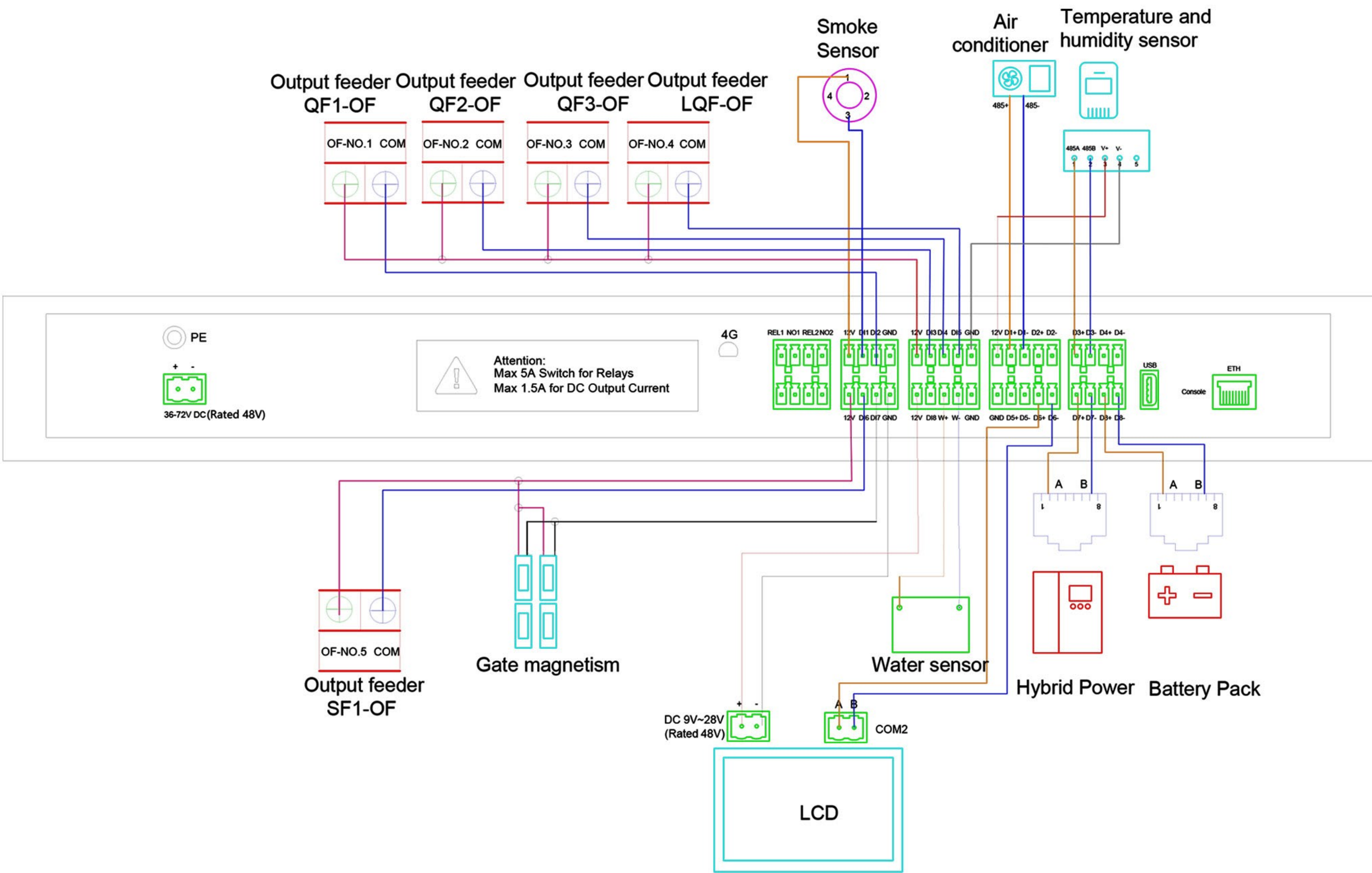
REAR VIEW



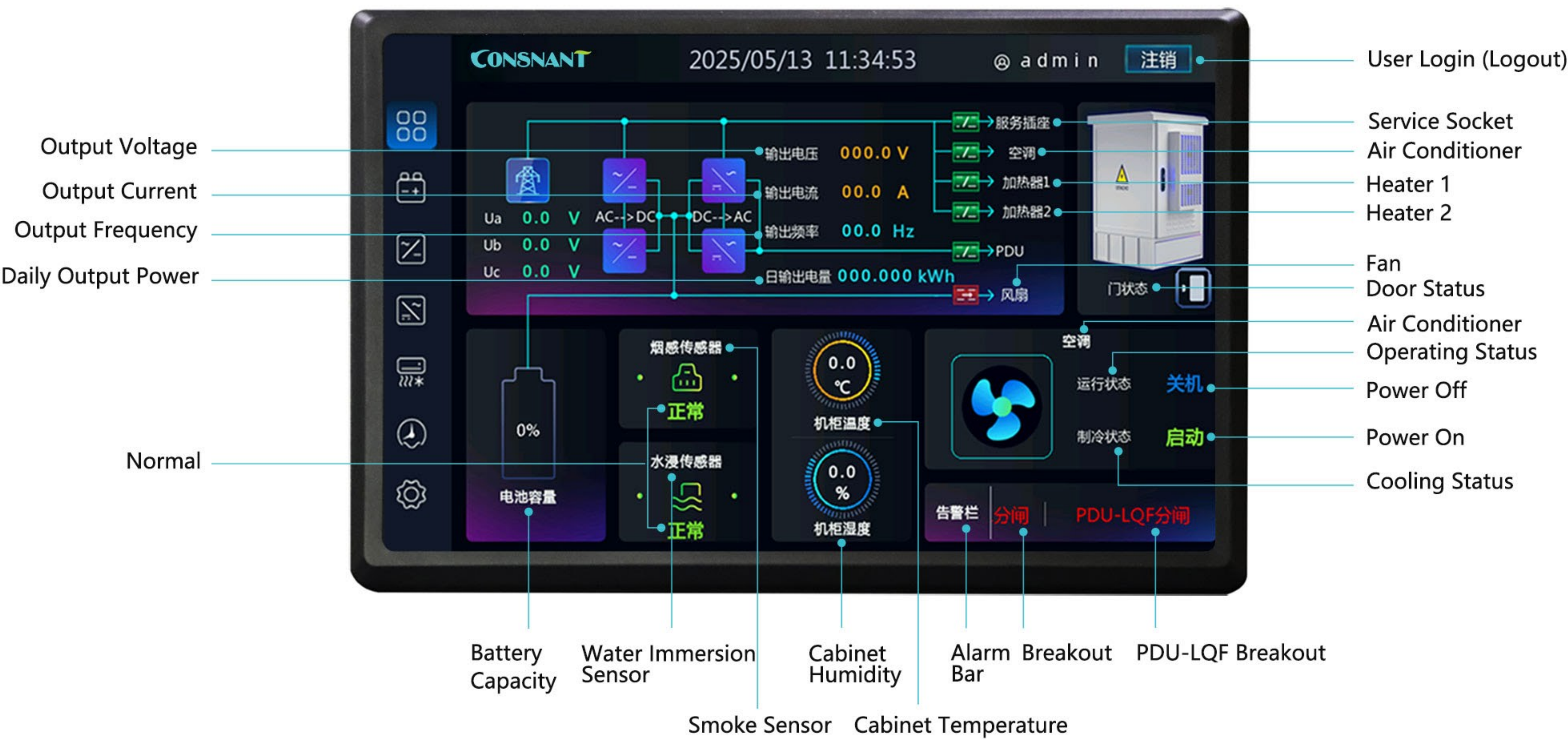
FRONT VIEW



Power and Enviroment Monitoring System Introduction



7 inch LCD Touch Screen Introduction



Features:

Touch screens can centrally manage all units;
Chinese, English, French, Russian can be optional, other languages can be customized.

Configuration			
System	Monitor Module	1 unit	
	Inverter Module: 2KW	2 units	
	Rectifier Module: 30A/50A/75A	2 units	
	Solar Module (optional)	50A (Input Voltage Range: 60~150Vdc)	
Power Distribution Unit	AC Distribution	SPD	SPD at AC side
		1 route of input MCB: 1 x63A/4P	
	DC Distribution	SPD	SPD at DC side
		Battery	2 routes of battery input fuses: 2x300A/100kA
		Load Output	6 routes of output current≤50A,among which: Priority load: 2 outputs, (1x32A MCB,1X16A MCB) Non-priority load: 4 outputs, (1x63A MCB, 1X32A MCB, 2X 16A MCB)
User Equipment Space		11U	
Temperature Control Unit		1 cabinet air conditioner AC 500W with 2 heaters 150W; 2 fan modules	
Others		Door sensor; Water sensor; Smoke sensor; Temperature and Humidity sensor	

Features

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- Case protection class IP55/IP56 and with corrosion resistant protective coating.
- Using advanced DSP digital control technology, online dual conversion design.
- Wide input voltage and frequency range.
- Compatible with SNMP card for remote real-time monitoring.
- Support power and environment monitoring system.
- The heater or air conditioner is optional for low and high temperatures.
- Integrated design of multiple protection functions.
- Standard 19-inch rack-type UPS power module for easy installation and maintenance.
- Compatible with VRLA batteries and lithium-ion battery packs.
- Support customized design, can reserve space for user equipment.
- Start automatically after power-on.
- The operating temperature range is -20℃ to +45℃.



OD-TRIS-48100		
Model		OD-TRIS-48100
AC Input		
AC Input Rated Voltage		Single-Phase 220Vac / Three-Phase 380Vac
Input Voltage Range		85Vac~300Vac
Input AC Voltage Frequency		45Hz~65Hz
Max. Input Current		≤55A (Single phase)
Power Factor		≥0.99
Output		
DC Output Voltage Range		42Vdc~58Vdc
DC Output Rated Voltage		54.5V
DC Maximum Output		Constant current 52A
Output Frequency		Rated 50Hz/60Hz (Frequency optional)
AC Output Rated Voltage		220Vac/230Vac (Optional)
AC Output Power		2000VA
Battery		
Charge Voltage		DC54.75V
Nominal Voltage		48V
Nominal Capacity		50Ah
Battery Size		3U
Max. Charge Current		25A
Max. Discharge Current		50A
Mechanical		
Dimensions (mm)	Cabinet	800(W) x 900/1000(D) x 1200(H) without/with air-conditioner
	User Equipment Space	Height: 3U; Width: 19inches
	Inverter Module:2KW	106.4(W) x 291(D) x 41.5(H)
	Rectifier Module:50A	106.5(W) x 286(D) x 41.5(H)
System Weight (kg)		>200
Environmental		
Operating Temperature		-20℃~+45℃
Storage Temperature		-40℃~+70℃
Relative Humidity		5%RH~90%RH
Altitude		≤3000m (Derate to use, if above 3000m)





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