Proposal No: ETP-Viettel-018-001

Embedded Subrack Proposal

Model: IPU418K-A5D689A1

June/04/2025

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Change History

1. This issue is the first official release. Mar/07/2025

2.Hide the circuit breaker behind the panel. Apr/16/2025

3.Update the picture. June/04/2025

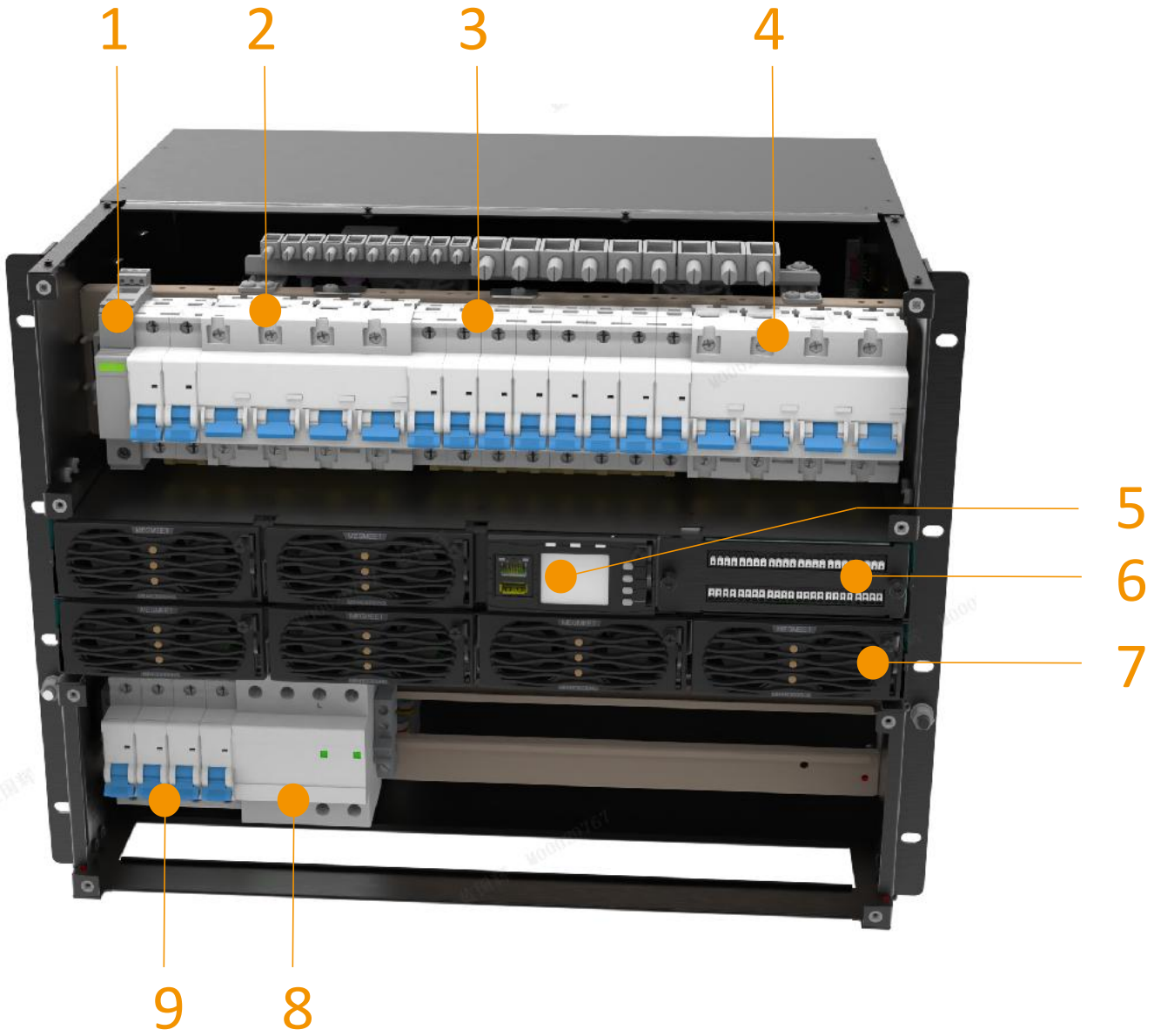
Specifications

Input Distribution	Input mode	380VAC three-phase
	Input breaker	63A/4P Icu=10kA
	Input frequency	45~65Hz, rated value: 50Hz/60Hz
	AC SPD	20kA/40kA,8/20μs
DC Output Distribution	Output voltage	-42~-58VDC, rated value: -53.5VDC
	Maximum capacity	18kW
	Battery breakers	4×125A/1P
	Load breakers	LLVD:2*63A/1P,4*125A/1P BLVD:4*20A/1P,4*40A/1P
	DC SPD	20kA/40kA,8/20μs
Controller	DI/DO	3AI(3 temp) ,8 DI,8 DO,3 Southbound RS485,1 Northbound RS485,1 12V
Environment	Operating temperature	-40℃~+65℃
	Operating humidity	5%~95%(non-condensing)
	Altitude	0~4000m(If the altitude is within the range of 3000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m.)

System Layout

➢Key Parameters:

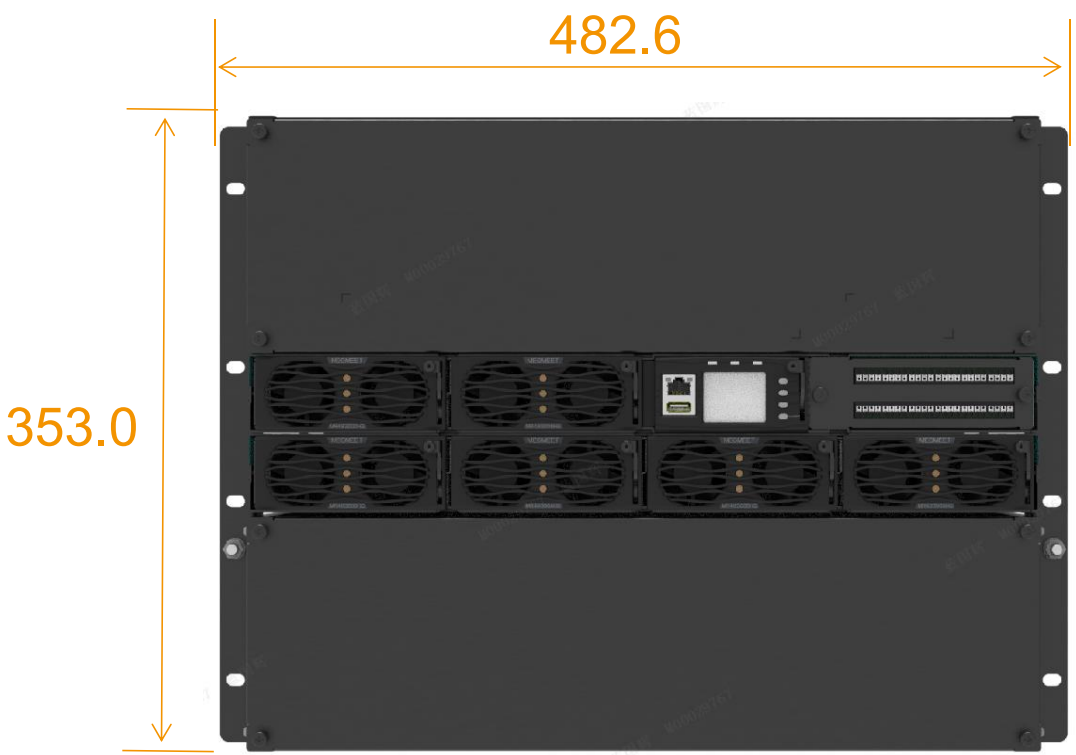
1. DC SPD: 20kA/40kA,8/20μs
2. LLVD MCB: 2*63A/1P,4*125A/1P
3. BLVD MCB: 4*20A/1P,4*40A/1P
4. BATT MCB: 4*125A/1P
5. Controller
6. DI/DO Interface
7. Rectifier, max 6pcs
8. AC SPD: 20kA/40kA,8/20μs
9. AC Input MCB:63A/4P

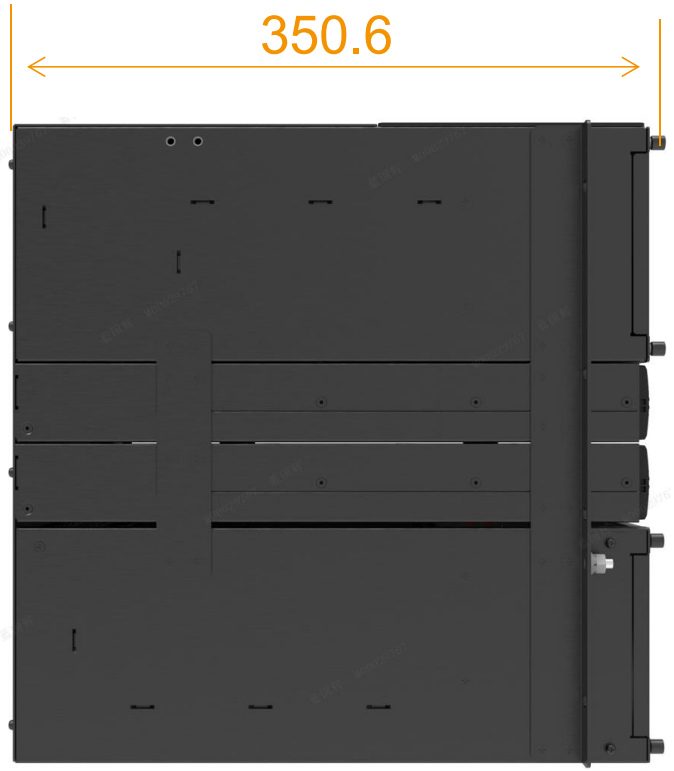


System Dimension(Unit: mm)

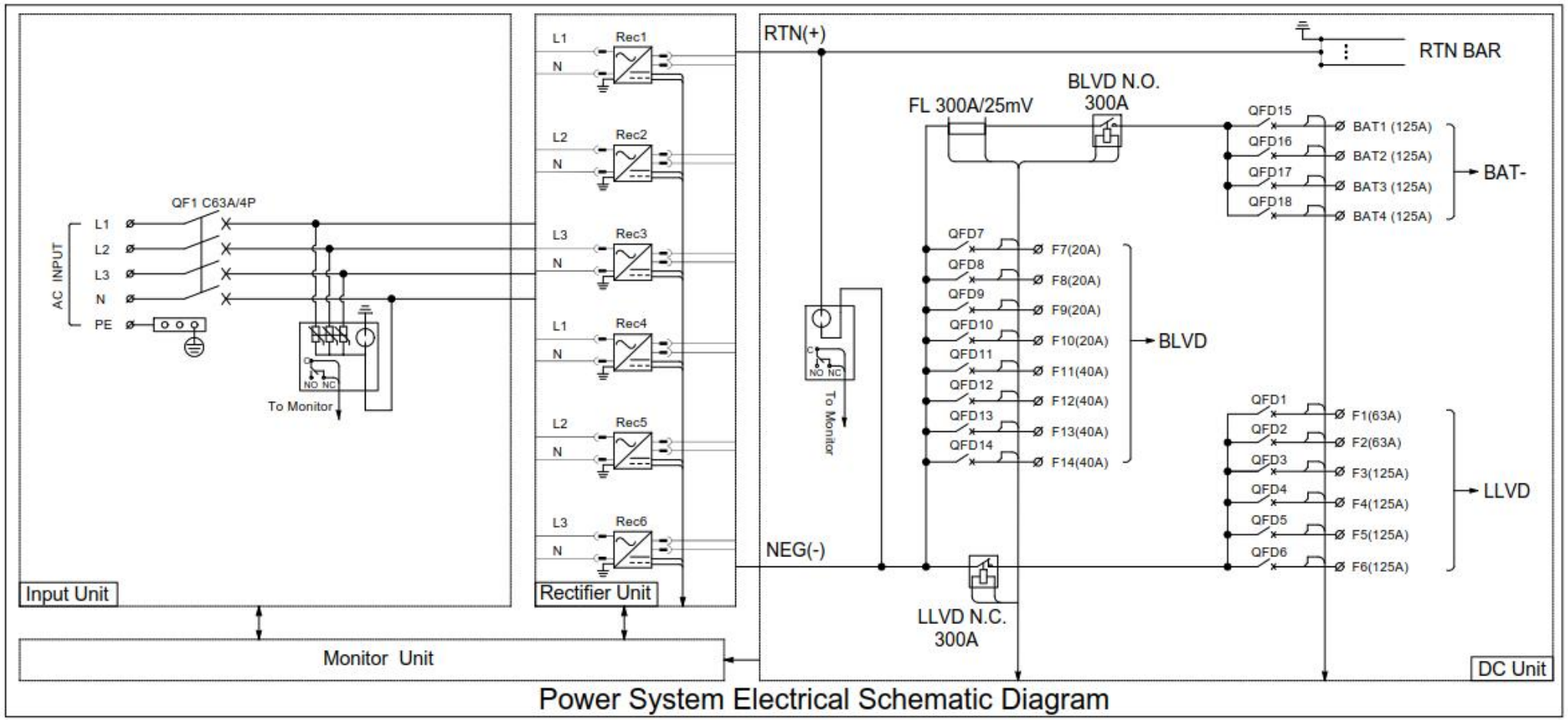
➢Key Parameters:

- 8U Height, 19” installation;
- Depth: 350.6mm;
- Front inlet and outlet





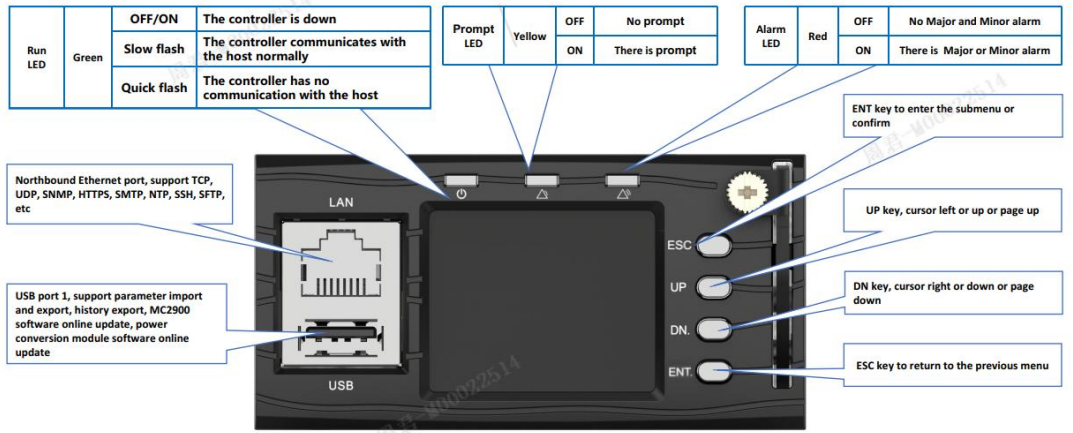
Electrical Schematic diagram



MC2900 Controller

MC2900 is the new generation DC power controller developed by Megmeet . It offers many features and functions, with a more robust, user-friendly, and easy-to-use interface. A power controller system is formed by this control module together with Megmeet’ s rectifier modules, solar modules and distribution plug-in frame (or distribution cabinet), realizing interactive operations in human-machine interfaces, controller of system operating state, intelligent battery management, and automatic energy-saving management.

Northbound integration protocol: Modbus, SNMP V3, YDT-1363



Interface resources	**Number**
Southbound CAN	2
Northbound RS485-3	1
Southbound RS485-1/RS485-2/RS485-4/RS485-5	4
Northbound FE	1
Load fuse	4
Battery fuse	2
DI	12
DO	8
USB port	2

Item	parameters
Input characteristics	
Rated input voltage	48Vdc
Input voltage range	24~60Vdc
Maximum current	300mA
Standby Power Consumption	≤7W
Local GUI	160X128，TFT
Web GUI	Yes

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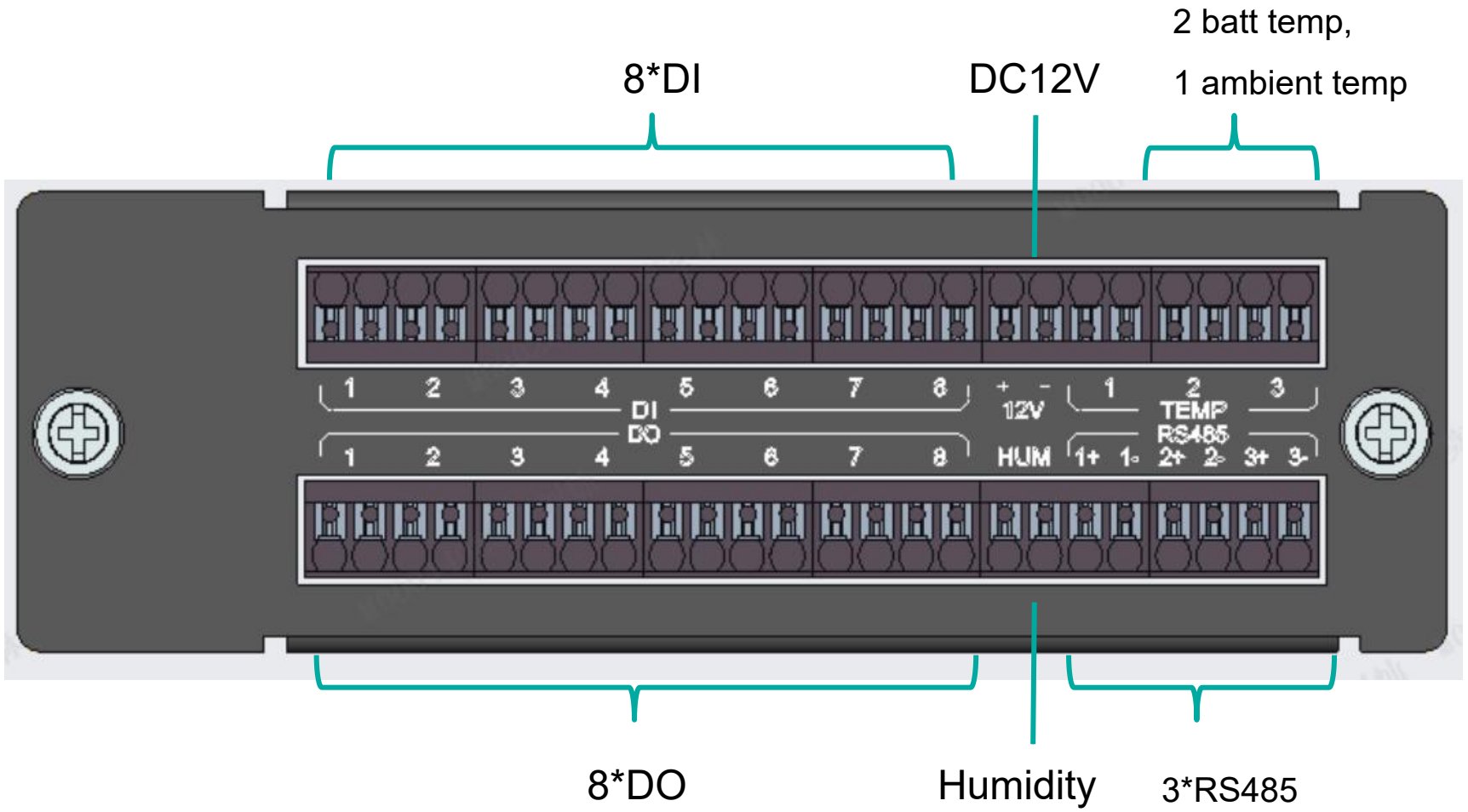
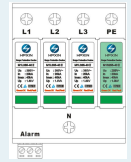
User Interface



Key component

NO.	Function description	Specification	Main parameter	Manufacturer	Picture
1	AC Input MCB	NDB2T-63 C63/4P	Ue=AC400V/415V,In=63A, Icu=10kA,UL1077	Nader	
2	AC Input SPD	M1L385-40I(3P+N)	20/40KA, 8/20μs Up:≤1.8kV(L-N)/≤1.0kV(N-PE)	HPXIN	
3	DC MCB	NDB1-63C 20/1P NDB1-63C 40/1P NDB1-63C 63/1P	Ue=60Vdc,In=20/40/63A, Icu=10kA	Nader	
4	DC MCB	NDB1-125C 125/1P	Ue=60Vdc,In=125A, Icu=10kA	Nader	
5	DC SPD	RPD48-40/1P	Uc=85Vdc,20/40KA, 8/20μs,Up≤0.6kV	RainbowallY	

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