

ETP23036-C6A1

Introduction

ETP23036-C6A1 is a AC & DC embedded power system with new architecture. Based on the integrated and all-scenario power platform, ETP23036-C6A1 adopts all-modular hardware design. It supports multiple energy (solar, grid or D.G.) access and scheduling, and supports multi-mode AC & DC output.

ETP23036-C6A1 is 6 U high. Its maximum DC power is 16 kW and maximum AC power is 36 kVA. It supports 19-inch rack installation and multiple networking modes (GPRS, IP, In-band, and etc.).



ETP23036-C6A1

Application Scenarios

- Applicable to non-grid, unreliable and reliable grid areas
- Supplies power to sensing devices, such as cameras and sensors.
- Supplies power to communications devices, such as wireless and transmission devices.
- Supplies power to IT devices, such as servers, storage devices, and routers.
- Supplies power to livelihood equipment and production equipment

Structure



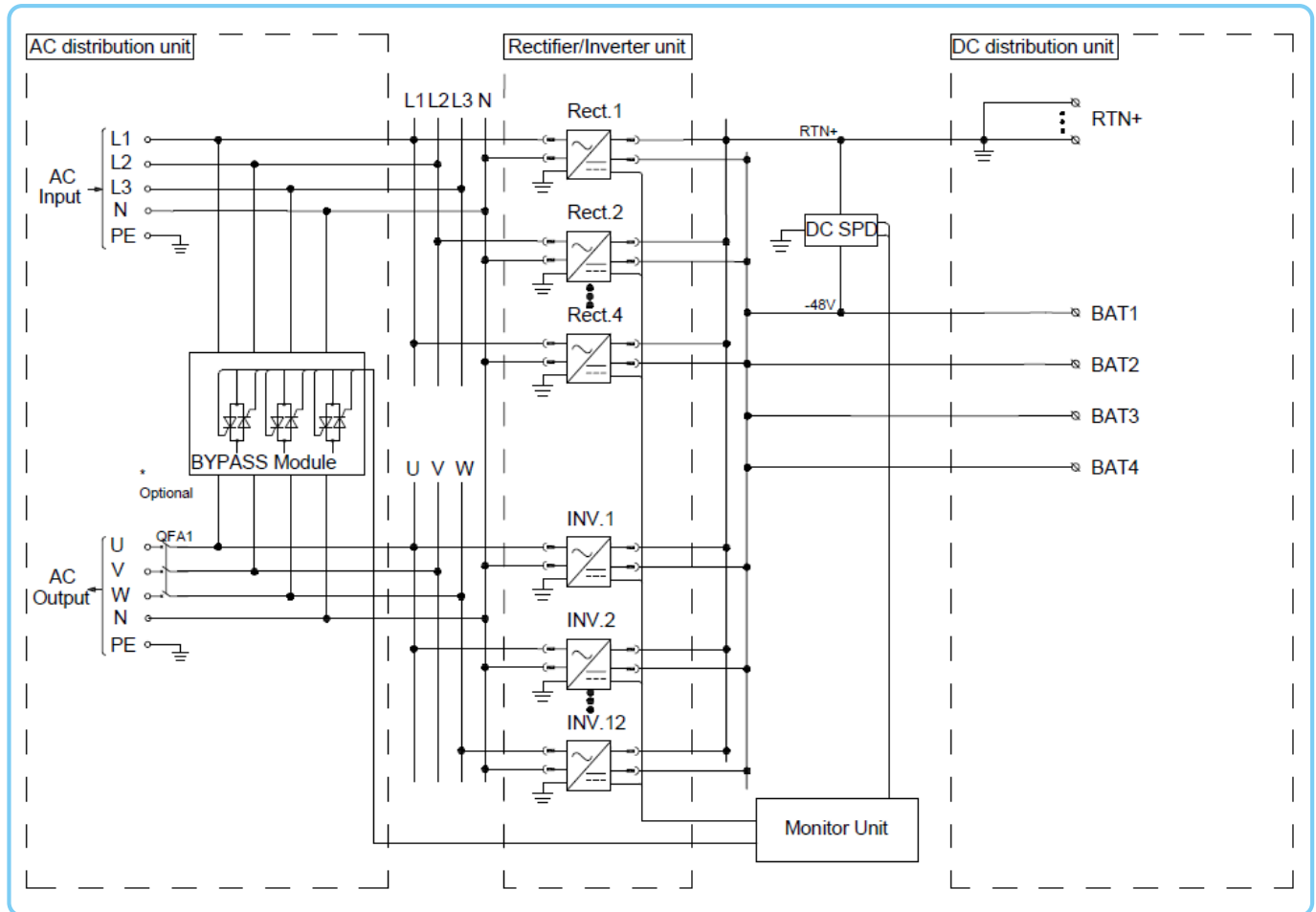
NO.	Name	Description	NO.	Name	Description
1	AC input	Three-phase: max. 105A/phase	6	Main monitoring module	SMU02C
2	AC output	Three-phase 1 x 100A MCB	7	Communications expansion module (optional)	Wireless communication & D.G. control
3	Batt. route	4 x 200A M8 OT terminal	8	User interface module	-
4	Cascading communication port		9~12	Rectifier slots	Compatible: • AC-DC rectifier: 3 kW rectifier, 4 kW rectifier • Solar power module: 3 kW SSU, 4 kW SSU, 4 kW PCU • Multi-mode low-voltage power module: MIMO module (12/24/36V DC ; 24V AC) • Intelligent power distribution expansion module: iDCDU module
5	AC bypass	36kVA	13~24	Inverter slot	Compatible: • DC-AC inverter: 3 kVA inverter • Solar power module: 3 kW SSU, 4 kW SSU, 4 kW PCU • Multi-mode low-voltage power module: MIMO module (12/24/36V DC ; 24V AC) • Intelligent power distribution expansion module: iDCDU module

Features

- **High power density**
16 kW DC / 36 kVA AC (maximum), 6U high
- **Unified intelligent power system**
Multiple energy inputs (solar, grid, or D.G.) and multiple output modes (AC: 24/220 V; DC: 12/24/36/48/57 V)
- **AI-based synergy scheduling**
Multi-energy (solar-grid-D.G.-battery) synergy scheduling, improving site power supply efficiency and reliability
- **Intelligent DC load management**
Accurate branch metering of service power consumption, and device-level precise power backup
- **Intelligent management**
Remote online O&M, reducing site visits and O&M costs

Electrical schematic diagram

ETP23036-C6A1 system electrical schematic diagram



Specifications

Product Type		ETP23036-C6A1
Basic Parameters	Dimensions (W × D × H)	482.6 mm × 350 mm × 6U
	Weight	≤ 25 kg (excluding rectifiers)
	Installation Mode	19-inch rack installation
	Cabling Mode	Front cable
	Maintenance Mode	Front
	Protection Level	IP20
AC Input	AC Mode	Three-phase: 85VAC - 300V AC
	Frequency	45Hz - 66Hz, default 50/60 Hz
	Input Current	Three-phase: max. 105A/phase
AC Output	Capacity	36kVA
	Output Voltage	Three-phase 230 V AC, can be set to 220/230V AC
	Frequency	50Hz/60Hz
	AC Output Branch	Three-phase 100 A MCB
	AC Bypass	36 kVA
	AC SPD	3KA/5kA (8/20 μs)
DC Output	Capacity	16kW
	Output Voltage	42V - 58V DC, default 53.5V DC
	Batt. Branch	4 × 200 A M8 OT terminal
	DC SPD	10kA/20kA (8/20μs)

Specifications

Product Type		ETP23036-C6A1	
Inverter Module	Model	I23003G1	
	DC Input	Current	Max. 85 A
		Voltage	43.2 V - 58 V
	Output voltage	220 Vac±2%	
	Output frequency	50Hz±1%	
	Inverter capacity	3kVA	
	Peak efficiency	≥94%	
	Output power factor	0.8	
	Overload capability	105% ≤ Load ≤ 125%: > 1 minute	
Rectifier	Model	R4875G5	
	Input voltage	85-300 V AC, rated 220 V AC	
	Rated power	4000W (176VAC - 300VAC) 4000 W to 1600 W (175 V AC to 85 V AC linear derating)	
	Maximum efficiency	97%	
	Operating temperature	-40°C - +75°C	
	Dimensions (H x W x D)	105 mm × 269 mm × 40.8 mm	
	Weight	≤2.2kg	
	Power factor	≥0.99	
	Harmonics	≤5%	
MIMO Module	Model	M48500N1	
	12 V DC output current/power	2 x 6 A, total power < 100 W	
	24 V DC output current/power	2 x 8 A, total power < 200 W	
	24 V AC output current/power	4 x 3 A, total power < 200 W, 50Hz	

Specifications

Product Type		ETP23036-C6A1
Monitoring module	Monitoring Model	SMU02C
	Signal input	Two AI channels (battery temperature and ambient temperature) Four DI ports (one for the access control system, one for the smoke sensor, one for the water sensor, and one reserved)
	Alarm output	8-channel DO
	Communication port	RS232, RS485, CAN,FE
	Storage capacity	A maximum of 1000 historical alarm records are supported.
	Display Mode	LCD, supporting the mobile app
	Networking Mode	IP, GPRS, inband
Environment	Operating temperature	-40°C - +65°C 80% load @ 50°C to 65°C. The system can be started @ -40°C to -33°C.
	Storage temperature	-40 °C - +70 °C
	Relative humidity	5% to 95% (non-condensing)
	Altitude	0-4000 m (2000-4000 m, 1°C lower for each additional 200 m)

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