# **iMagicPower**

### ETP23003-C1A1



### Introduction

ETP23003-C1A1 is a AC & DC embedded power system with new architecture. Based on the integrated and all-scenario power platform, ETP23003-C1A1 adopts all-modular hardware design. It supports multiple energy (solar, grid) access and scheduling, and supports multi-mode AC & DC output.



ETP23003-C1A1's maximum DC power is 8 kW and maximum AC power is 3 kVA. ETP23003-C1A1 supports 19-inch rack installation and supports IP networking.

#### **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.

### **Structure**



	NO.	Name	Description	
Front side	1~2	Rectifier slot	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	
	3	Inverter slot	Compatible:  DC-AC inverter: 3 kVA inverter  Multi-mode low-voltage power module: MIMO module (12/24/36V DC ; 24V AC)  Intelligent power distribution expansion module: iDCDU module	
	4	Main monitoring module	SMU11B	
	5	Battery port	$1 \times 150 \text{ A OT terminal}$	
Back side	6	AC output	1 x 16A socket	
	7	AC input	48A single-phase AC input	

### **Features**

High power density

8 kW DC / 3 kVA AC (maximum), 1U high

Unified intelligent power system

Multiple energy inputs (solar, grid) and multiple output modes (AC: 24/220 V; DC: 12/24/36/48/57 V)

Hot-swappable

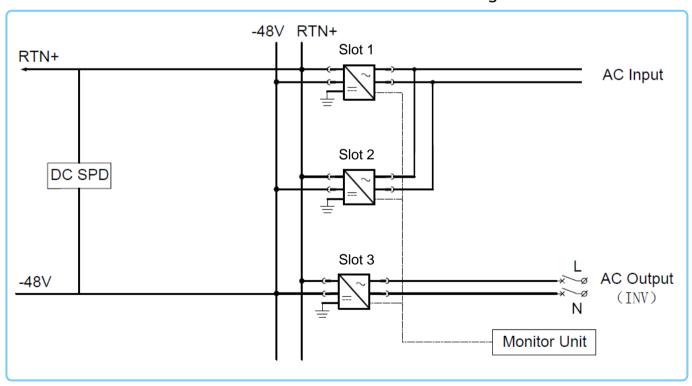
The rectifiers and inverters are hot-swappable

Intelligent management

Remote online O&M, reducing site visits and O&M costs

## **Electrical schematic diagram**

### ETP23003-C1A1Electrical schematic diagram



# Specifications

Produ	uct Type	ETP23003-C1A1
	Dimensions (W $\times$ D $\times$ H)	482.6 mm × 330 mm × 1U
	Weight	≤ 5 kg (excluding rectifiers)
Dania Danamatana	Installation Mode	19-inch rack installation
Basic Parameters	Cabling Mode	Front & back cabling
	Maintenance Mode	Front
	Protection Level	IP20
	AC Mode	Single-phase 85-300 Vac
AC Input	Frequency	45Hz~66Hz, default 50/60 Hz
	Input Current	Max. 48A
	Capacity	3kVA
	Output Voltage	Single-phase 220 V AC
AC Output	Frequency	50Hz/60Hz
	AC Output Branch	1 x 16A socket
	AC SPD	3KA/5kA (8/20 μs)
	Capacity	8kW
DC Output	Output Voltage	42V~58V DC, default 53.5V DC
2 C Gatput	Batt. Branch	1 × 150 A OT terminal
	DC SPD	10kA/20kA (8/20μs)

## Specifications

Product Type			ETP23003-C1A1
	Model		123003G1
	DC Input	Current	Max. 85 A
		Voltage	43.2 V - 58 V
	Output voltage		220 Vac±2%
Inverter Module	Output frequency		50Hz±1%
	Inverter capacity		3kVA/PCS
	Peak efficiency		≥94%
	Output power factor		0.8
	Overload capability		105% ≤ Load ≤ 125%: > 1 minute
	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)
D	Maximum efficiency		97%
Rectifier	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%
	Model		M48500N1
MIMO Module	12 V DC output current/power		2 x 6 A, total power < 100 W
WIIWIO Module	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
	Operating temperature		-40°C - +65°C 80% load @ 50°C to 65°C. The system can be started @ -40°C to -33°C.
Environment	Storage temp	perature	-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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