



Integrated Video Site

PowerCube 500 (EG8084P-300)

Introduction

Huawei Power Cube 500(EG8084P-300) is a highly integrated power and service transmission solution, which is widely used in Safe City & Smart transportation. It configures high performance power module, Huawei special-design lithium battery and intelligent OSS, provides continuous power for video surveillance applications, greatly improve the system reliability and enhance the ease of maintenance.

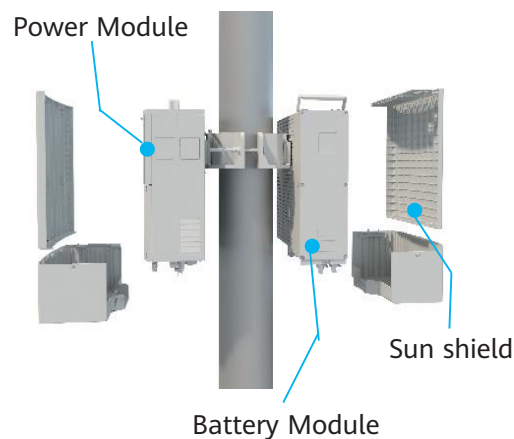
The EG8084P-300 includes two products, EG8084P-300G1 supports pure grid supply, and the EG8084P-300H1 supports solar + grid supply.

Features

- Simple Deployment
- 12 Vdc, 24 Vac, PoE, PoE+, PoE++ output
- Pre-integrated, one-stop installation
- Reliable Power Supply
- Protection Rating: IP65
- Wide temperature adaptability: -40 °C to +55 °C
- Flexible Service Transmission
- Multi-services: GPON, XGS-PON, 10G GPON
- Intelligent Management
- Remote unified network management

Scenarios

- Video site
- Network transmission site
- Other low power consumption site



Product software features

Automatic Service Provisioning

- Authentication exemption
- XML/OMCI/TR069

Smart O&M

- XML / Web UI
- eSight management
- Rogue ONT detection and self-regulation
- Ring network detection
- PPPoE / DHCP emulation testing

QoS

- Ethernet port rate limitation
- 802.1p priority
- SP/WRR/SP+WRR

Security

- Filtering based on MAC/IP/URL
- DoS/ARP anti-attacks
- Session number restriction
- Device access control
- Support four authentication methods for EAP-MD5/TLS/TTLS/PEAP of 802.1x

Protection

- Type B single-homing
- Type B dual-homing (supported in Layer 2 forwarding)

Layer 2 Management

- DHCP Option82
- PITP
- BPDU transparent transmission
- LLDP/LLDP-MED

Power System Specifications

	Module	Power Module	Battery Module CBM20E
System	Dimension (W× D × H)	300 mm × 150 mm × 400 mm	300 mm × 120 mm × 400 mm
	Dimension (with sunshield)	300 mm × 165 mm × 570 mm	300 mm × 165 mm × 570 mm
	Weight (with sunshield)	16 kg	20 kg
	Battery Capacity	NA	20 Ah
	Cooling Mode	Natural heat dissipation	
	Installation Mode	Pole mounted, Wall-mounted	
	Pole-mounting Bracket Diameter	105 – 210 mm	
	Cabling Mode	From the bottom	
	Noise Level	≤ 65 dB (A) @ 1.5 m, comply with the GR487	
	Protection Rating	IP65	
	Network Access	GPON, XGS-PON	
	AC/DC Distribution	Grid Input Mode	220 Vac single-phase, 110 Vac dual-live wire
Grid Input Voltage		85 – 300 Vac, rated: 220 Vac	48 Vdc
Solar Input Voltage (Only EG8084P-300H1)		24 – 130 Vdc	NA
MPPT Tracking Precision (Only EG8084P-300H1)		≥ 98%	NA
Input Frequency		45 Hz – 65 Hz, rated: 50 Hz	NA
Output Voltage		2 x 12 Vdc (≤ 48 W) 1 x 24 Vac (≤ 72 W) 2 x PoE+ , 6 x PoE++ (53 Vdc) (≤ 175 W)	48 Vdc

Power System Specifications

AC/DC Distribution	Rated Output Capacity	175 W	200 W
	Surge Protection	AC input: 20 kA / 20 kA (8 / 20 μ s) Output: 12 Vdc & 48 Vdc: 3 kA / 5 kA (8 / 20 μ s); 24 Vac: 2 kV / 6 kV	NA
Communication	Communication Type	1× DB9 (CAN)	1× DB9 (CAN)
Environment	Operating Temperature Range	-40 °C to +55 °C *	Discharge: -40 °C to +55 °C; Charge: 0 °C to +55 °C
	Storage Temperature	-40 °C to +70 °C	Transportation: -40 °C to +60 °C; Storage: 0 °C to +40 °C
	Operating Humidity	5% – 95% (no condensation)	
	Altitude	0 – 4000 m (1°C per 200 m temperature derating from 2000 - 4000 m)	
	Wind-resistance Level	≤ 40 m / s	

* Power derating with solar radiation if environment temperature > 50 °C

Network System Specifications

Module	Description
UNI	8*GE
NNI	1*GPON/XGS-PON
GPON port	<ul style="list-style-type: none"> SC/UPC connector SFP+ optical module GPON: Class B+; Receiver sensitivity: -27dBm; Overload optical power: -8dBm XGS-PON: Class N1/N2; Receiver sensitivity: -28dBm; Overload optical power: -9dBm
GPON Transmission rate (unit: Gbit/s)	<ul style="list-style-type: none"> GPON: downstream 2.488, upstream 1.244 XGS-PON: downstream 9.953, upstream 9.953
Ethernet Electrical Port	<ul style="list-style-type: none"> PoE & PoE+ & PoE++, complying with IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt(draft) Gross power up to 175 W , number 1 and 2 GE ports support up to 60W(PoE++) and number 3 to 8 GE ports support up to 30W(PoE+). RJ-45 connector Auto ports speed(10/100/1000 Mbit/s)
Surge protection specifications	GE port: common mode 6 kV; differential mode 1.5 kV

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