

Video Surveillance Power Solution

PowerCube 500 - Grid Hybrid



Introduction

Huawei PowerCube 500 is a highly integrated power solution for video surveillance, which is widely used in Safe City & Smart City, and grid hybrid power system is suitable for unstable grid area application. It configures high performance module, Huawei special-design batteries, and intelligent OSS, can provide continuous power and multi-mode voltage output for video surveillance and transmission equipment and so on, it greatly improve the system reliability and enhance the ease of maintenance.

Features

- Multi-mode output: 12 Vdc, 24 Vac, 48 Vdc, 220 Vac
- Special design battery with up to 5 years lifespan
- Pole/wall mounted for anti-theft and "0" footprint
- Wide temperature adaptability: -30°C to +50°C
- High protection rating: IP55
- Site management with mobile APP
- Remote energy management by NetEco (optional)

Scenarios

Video surveillance sites or transportation system in

- Unstable grid areas
- Frequent outage areas



Integrated cabinet ICC30



Integrated cabinet ICC50



IVS Site

ITS Site

Specifications

Cabinet Type	ICC30	ICC50	
System	Dimension (W × D × H)	480 mm × 480 mm × 750 mm	650 mm × 650 mm × 1000 mm (including base)
	Cabinet Cooling Mode	Equipment cabin: heat exchange; Battery cabin: direct cooling	
	Installation Mode	Pole mounted / wall mounted	Pole mounted / on ground
	Cabling Mode	From the bottom	
	Maintenance Mode	From the front	
	Noise Level	≤ 65 dBA@1.5m, satisfy the GR487 standard	
	Protection Rating	Equipment cabin: IP55; Battery cabin: IP34	
	Transmission Equipment Space	256 mm (W) x 448mm (D) x 136mm (H)	3 U
	User Space	1 U	0 - 4 U
	Weight without battery	65 kg	90 kg
Battery Model and Capacity	TCB-30C (30 Ah); ESM-A02 (25 Ah)	TCB-60C (60 Ah); TCB-100C (100 Ah); ESU-A2400Wh/D (50 Ah), max 100 Ah	
AC/DC Distribution	Input Mode	220 Vac single-phase, 110 Vac dual-live wire	
	Input Voltage	85 Vac - 300 Vac, rated: 220 Vac	
	Rated Input Frequency	50Hz/60Hz	
	SPD	10kA/20kA, 8/20μs	
	Output Voltage	12 Vdc, 24 Vac, 48 Vdc (220 Vac, PoE optional)	
	Rated Output Capacity	120 W	1000 W
	12 Vdc Output	4 x 6 A, total power < 100 W	4 x 6 A, total power < 100 W
	24 Vac Output	4 x 3 A, total power < 120 W	4 x 3 A, total power < 200 W
	48 Vdc Output	1 x 10 A, total power < 120 W	1 x 30 A, total power < 1000 W
SPD	48 Vdc: 10kA/20kA (8/20μs); 12 Vdc: 3kA/5kA (8/20μs); 24 Vac: 2kV/6kV		
Controller	Signal Input	3 DI 4 AI (ambient temp., gate, smoke, battery temp.)	
	Alarm Output	5 dry contact	
	Communication Port	RS232, RS485, CAN, FE	
	Storage Capacity	Up to 1000 historical alarm records	
	Display Mode	LCD, mobile APP, web	
Environment	Operating Temperature Range	-30°C to +50°C (including solar radiation)	
	Storage Temperature	-20°C to +70°C (including solar radiation)	
	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	

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Video Surveillance Power Solution

PowerCube 500 – Grid+Solar Hybrid



Introduction

Huawei PowerCube 500 is a highly integrated power solution for video surveillance, which is widely used in safe & smart city. Grid+solar hybrid power system is suitable for unstable grid with adequate sunshine area application. It configures high performance module, Huawei special-design batteries, and intelligent OSS, can provide continuous power and multi-mode voltage output for video surveillance and transmission equipment and so on, it greatly improve the system reliability, maximum the use of solar energy and enhance the ease of maintenance.

Features

- Multi-energy input: grid and solar both support
- Multi-mode output: 12 Vdc, 24 Vac, 48 Vdc, 220 Vac
- Special design battery with up to 5 years lifespan
- Pole/wall mounted for anti-theft and "0" footprint
- Wide temperature adaptability: -30°C to +50°C
- High protection rating: IP55
- Site management with mobile APP
- Remote energy management by NetEco (optional)

Scenarios

Video surveillance sites in

- Unstable grid areas
- Frequent outage areas
- Adequate sunshine areas



ICC30-NA



ICC30-NT



Specifications

Cabinet Type	ICC30-NA	ICC30-NT	
System	Dimension (W × D × H)	480 mm × 480 mm × 750 mm	
	Cabinet Cooling Mode	Heat exchange	Equipment cabin: heat exchange; Battery cabin: direct cooling
	Installation Mode	Pole mounted / wall mounted	
	Cabling Mode	From the bottom	
	Maintenance Mode	From the front	
	Noise Level	≤ 65 dBA@1.5m, satisfy the GR487 standard	
	Protection Rating	IP55	Equipment cabin: IP55; Battery cabin: IP34
	Transmission Equipment Space	256 mm (W) x 448mm (D) x 136mm (H)	
	User Space	1 U	
	Weight without battery	65 kg	65kg
	Weight with battery	90 kg	120 kg
	Battery Model and Capacity	ESM-A02 (25 Ah)	TCB-30C (30 Ah)
	AC/DC Distribution	Input Mode	220 Vac single-phase, 110 Vac dual-live wire
Input Voltage		85 Vac - 300 Vac, rated: 220 Vac	
Rated input Frequency		50Hz/60Hz	
SPD		10kA/20kA, 8/20μs	
Output Voltage		12 Vdc, 24 Vac, 48 Vdc (220 Vac, PoE optional)	
Rated Output Capacity		120 W	
12 Vdc Output		4 x 6 A, total power < 100 W	
24 Vac Output		4 x 3 A, total power < 120 W	
48 Vdc Output		1 x 10 A, total power < 120 W	
SPD		48 Vdc: 10kA/20kA (8/20μs); 12 Vdc: 3kA/5kA (8/20μs); 24 Vac: 2kV/6kV	
SSU	SSU Type	S4820G1	
	Input Voltage	24 - 130 Vdc	
	Rated Power	1000 W (up to 98.5%)	
	MPPT Tracking Precision	≥ 98%	
Controller	Signal Input	3 DI 4 AI (ambient temp., gate, smoke, battery temp.)	
	Alarm Output	5 dry contact	
	Communication Port	RS232, RS485, CAN, FE	
	Storage Capacity	Up to 1000 historical alarm records	
	Display Mode	LCD, mobile APP, web	
Environment	Operating Temperature Range	-30°C to +50°C (including solar radiation)	
	Storage Temperature	-20°C to +70°C (including solar radiation)	
	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	

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Video Surveillance Power Solution

PowerCube 500 – Pure Solar



Introduction

Huawei PowerCube 500 is a highly integrated power solution for video surveillance, which is widely used in safe & smart city. Solar hybrid power system is suitable for off grid with adequate sunshine area application. It configures high performance module, Huawei special-design batteries, and intelligent OSS, can provide continuous power and multi-mode voltage output for video surveillance and transmission equipment and so on, it greatly improve the system reliability, maximum the use of solar energy and enhance the ease of maintenance.



ICC50-HDA



ICC50-HDT

Features

- Multi-mode output: 12 Vdc, 24 Vac, 48 Vdc, 220 Vac
- Special design battery with up to 5 years lifespan
- Wide temperature adaptability: -30°C to +50°C
- High protection rating: IP55
- Site management with mobile APP
- Remote energy management by NetEco (optional)

Scenarios

Video surveillance sites in

- Off grid areas
- Unstable grid areas
- Frequent outage areas
- Adequate sunshine areas



Specifications

Cabinet Type		ICC50-HDA	ICC50-HDT
System	Dimension (W × D × H)	650 mm × 650 mm × 1000 mm (including base)	
	Cabinet Cooling Mode	Equipment cabin: heat exchange; Battery cabin: direct cooling	
	Installation Mode	On ground	
	Cabling Mode	From the bottom	
	Maintenance Mode	From the front	
	Noise Level	≤ 65 dBA@1.5m, satisfy the GR487 standard	
	Protection Rating	Equipment cabin: IP55; Battery cabin: IP34	
	Transmission Equipment Space	3 U	
	User Space	2 - 3 U	4 U
	Weight without Battery	90 kg	90 kg
Battery Model and Capacity	ESU-A2400Wh/D(50Ah), max 100Ah	TCB-60C(60Ah); TCB-100C(100Ah)	
AC/DC Distribution	Output Voltage	12 Vdc, 24 Vac, 48 Vdc (220 Vac, PoE optional)	
	Rated Output Capacity	1000 W	
	12 Vdc Output	4 x 6 A, total power < 100 W	
	24 Vac Output	4 x 6 A, total power < 200 W	
	48 Vdc Output	1 x 30 A, total power < 1000 W	
	SPD	48 Vdc: 10kA/20kA (8/20μs); 12 Vdc: 3kA/5kA (8/20μs); 24 Vac: 2kV/6kV	
SSU	SSU Type	S4820G1	
	Input Voltage	24 - 130 Vdc	
	Rated Power	1000 W (up to 98.5%)	
	MPPT Tracking Precision	≥ 98%	
Controller	Signal Input	3 DI 4 AI (ambient temp., gate, smoke, battery temp.)	
	Alarm Output	5 dry contact	
	Communication Port	RS232, RS485, CAN, FE	
	Storage Capacity	Up to 1000 historical alarm records	
	Display Mode	LCD, mobile APP, web	
Environment	Operating Temperature Range	-30°C to +50°C (including solar radiation)	
	Storage Temperature	-20°C to +70°C (including solar radiation)	
	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	

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