

RUGGED. RELIABLE. UNMATCHED.

MEET SOLIS ENERGY'S CONTINUOUS POWER BRIDGE CPB24570 SERIES



Don't let your devices turn off with your power supply. Designed for applications where power outages are regular and predictable, the CPB keeps your devices running when your gang-switched power supply, such as a light pole, is turned off. Perfect for surveillance cameras and Wi-Fi radios mounted on parking lot light poles or street lights that don't receive power in the daytime.

CONTINUOUS POWER BRIDGE



FEATURES

- True Universal AC input (90 to 305 VAC)
- Operating Temperature (-20 to 70 °C)
- Hydraulic-Magnetic Breakers
- Powder Coated Aluminum Enclosure
- Clean DC Power Output
- Online Battery Connection - Zero Transfer Time
- Multi-Stage Charging



APPLICATIONS

- Surveillance Cameras
- Wireless Communication Equipment
5G, CBRS, Private LTE, mmWave
- Wi-Fi Hotspots
- Obstruction Lighting
- Access Control Devices
- SCADA Systems
- Emergency Call Boxes and Mustering Stations



POWER WHEN YOU NEED IT.

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Rev 25.10

CPB24570 SERIES



		VRLA Gel Battery			
OVERVIEW	Model Number	CPB24570-E 22G2	CPB24570-E 31G2	CPB24570-3 34G4	CPB24570-3 31G4
	System Nominal Voltage	24 VDC			
	Backup System Type	Online UPS			
	Charging Algorithm	Multi Stage			
	Surge Protection	Transient			
	Total Weight	110.0	172.0	237.0	357.0
MAXIMUM LOAD	Maximum System Load (W)	24.5	46.8	57.6	93.6
INPUT	Voltage Range AC	90 - 305 VAC			
	Frequency Range	47 - 63Hz			
	Efficiency (Typical)	93.50%			
	AC Current (Typical)	7A/115 VAC	3.3A/230 VAC	2.9A/277 VAC	
CHARGING	Boost Charge Voltage	28.8 VDC			
	Float Charge Voltage	27.2 VDC			
	Output Current	21 A			
	Charge Controller Max Operating Temp	70°C			
PROTECTION	Circuit Breaker Input	10A Dual Pole Hydraulic-Magnetic			
	Circuit Breaker Battery	25A Single Pole Hydraulic-Magnetic			
	Circuit Breaker Load	10A Single Pole Hydraulic-Magnetic			
	Environmental	Over Voltage / Over Temperature			
ENVIRONMENTAL	Working Temperature	-20°C - 60°C (-40°C - 70°C with Derating)			
	Storage Temperature	-40°C - 85°C			
	Working Humidity	20 - 95% RH non-condensing			
ENCLOSURE	Dimensions (HxWxD) (in)	28 x 17.4 x 15.2		34.4 x 31.3 x 18.5	
	Weight, Empty (lb)	21.0		65.0	
	Weight, with Controller (lb)	35.0		83.0	
	Material	A5052-H32 Aluminum Alloy			
	Finish	Polyester Powder Coat			
	Fastener	Stainless Steel Draw Latch with Padlockable Hasp			
	Hinge	Door Length Stainless Steel Piano Hinge			
	Cable Ingress / Egress	1/2" NPT Polyamide Cord Grips			
	Environmental	NEMA 3 - Field Upgradable to NEMA 4			
	Pole / Wall / Truss Tower Mounting	Yes			
	Free Standing / Ground Mounting	No		Yes	
	Shelf	Optional		Yes	
BATTERY ARRAY	Array Total Energy Storage (Wh)	1224	2340	2880	4680
	Array Voltage (Nominal)	24 VDC			
	Array Capacity @ C20 (Ah)	51	97.5	120	195
	Chemistry	Sealed Gel VRLA			
	Quantity	2	2	4	4
	Weight, Total (lb)	75.0	137.0	154.0	274.0
	Weight, Each (lb)	37.5	68.5	38.5	68.5
	Charging Temperature Range	-60°C - 60°C			

Note: The information contained herein is subject to change without notice.

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CPB24570 SERIES



		LiFePO ₄ Battery			
OVERVIEW	Model Number	CPB24570-C 27LT1	CPB24570-E 24L2	CPB24570-E 27L2	CPB24570-3 27L4
	System Nominal Voltage	24 VDC			
	Backup System Type	Online UPS			
	Charging Algorithm	Multi Stage			
	Surge Protection	Transient			
	Total Weight	54.0	89.0	87.0	161.0
MAX LOAD	Maximum System Load (W)	27.0	40.5	54.0	108.0
INPUT	Voltage Range AC	90 - 305 VAC			
	Frequency Range	47 - 63Hz			
	Efficiency (Typical)	93.50%			
	AC Current (Typical)	7A/115 VAC	3.3A/230 VAC	2.9A/277 VAC	
CHARGING	Boost Charge Voltage	28.8 VDC			
	Float Charge Voltage	27.2 VDC			
	Output Current	21 A			
	Maximum Charging Temperature	70°C			
PROTECTION	Circuit Breaker Input	10A Dual Pole Hydraulic-Magnetic			
	Circuit Breaker Battery	25A Single Pole Hydraulic-Magnetic			
	Circuit Breaker Load	10A Single Pole Hydraulic-Magnetic			
	Environmental	Over Voltage / Over Temperature			
ENVIRONMENTAL	Working Temperature	-20°C - 57.2°C			
	Storage Temperature	-40°C - 60°C			
	Working Humidity	20 - 95% RH non-condensing			
ENCLOSURE	Dimensions (HxWxD) (in)	27.8 x 17.4 x 8.1	28 x 17.4 x 15.2		34.4 x 31.3 x 18.5
	Weight, Empty (lb)	14.0	21.0		65.0
	Weight, with Controller (lb)	28.0	35.0		83.0
	Material	A5052-H32 Aluminum Alloy			
	Finish	Polyester Powder Coat			
	Fastener	Stainless Steel Draw Latch with Padlockable Hasp			
	Hinge	Door Length Stainless Steel Piano Hinge			
	Cable Ingress / Egress	1/2" NPT Polyamide Cord Grips			
	Environmental	NEMA 3 - Field Upgradable to NEMA 4			
	Pole / Wall / Truss Tower Mounting	Yes			
	Free Standing / Ground Mounting	No			Yes
	Shelf	Optional	Optional		Yes
BATTERY ARRAY	Array Total Energy Storage (Wh)	1200	1800	2400	4800
	Array Voltage (Nominal)	24 VDC			
	Array Capacity @ C20 (Ah)	50	75	100	200
	Chemistry	LiFePO ₄			
	Quantity	1	2	2	4
	Weight, Total (lb)	26.0	54.0	52.0	78.0
	Weight, Each (lb)	26.0	27.0	26.0	26.0
	Charging Temperature Range	-20°C - 57.2°C			

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