

DEPENDABLE. PRACTICAL. VERSATILE.

MEET SOLIS ENERGY'S UNINTERRUPTIBLE POWER SUPPLY UPS12090 SERIES



It pays to expect the unexpected. With the help of Solis Energy's Uninterruptible Power Supply (UPS), your grid-powered applications will have reliable battery backup power preventing an unplanned outage. In the event of a blackout, brownout or power dip, our UPS will keep your devices on short-term power until regular grid power is restored. The UPS is a fitting solution for critical applications such as security & surveillance systems, wireless networks, and industrial control systems installed in areas prone to harsh weather events, and any installation where continuous power is not only needed, but necessary.

UNINTERRUPTIBLE POWER SUPPLY



FEATURES

- Universal AC input (85 to 265 VAC)
- Operating Temperature (-20 to 60 °C)
- Hydraulic-Magnetic Breakers
- Powder Coated Aluminum Enclosure
- Clean DC Power Output
- Online Battery Connection - Zero Transfer Time
- Alarm Contacts



APPLICATIONS

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



POWER WHEN YOU NEED IT.

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Rev 25.10



UPS12090 SERIES

		UPS12090-B		UPS12090-C		UPS12090-E
		UPS12090-B 12A1	UPS12090-B U1A1	UPS12090-C 22A1	UPS12090-C 31A1	UPS12090-E 31A2
OVERVIEW	Model Number					
	System Nominal Voltage	12 VDC				
	Type	Online Industrial UPS				
	Total Weight	21.8	36.0	58.0	67.5	161.0
	Alarms	AC OK, Low Battery				
	Maximum Load	90W				
ESTIMATED BACKUP AT LOAD WATTAGE (HOURS)	90W Load	1.2 h	3.1 h	5.3 h	9.7 h	19.5 h
	80W Load	1.3 h	3.5 h	5.9 h	11.0 h	21.9 h
	70W Load	1.5 h	4.0 h	6.8 h	12.5 h	25.1 h
	60W Load	1.7 h	4.7 h	7.9 h	14.6 h	29.2 h
	50W Load	2.1 h	5.6 h	9.5 h	17.5 h	35.1 h
	40W Load	2.6 h	7.0 h	11.9 h	21.9 h	43.9 h
	30W Load	3.5 h	9.4 h	15.8 h	29.2 h	58.5 h
	20W Load	5.2 h	14.0 h	23.7 h	43.9 h	87.7 h
	10W Load	10.4 h	28.1 h	47.4 h	87.7 h	175.4 h
INPUT	Voltage Range AC	90 - 264 VAC				
	Frequency Range	50-60 Hz				
	Efficiency (Typical)	88.00%				
	AC Current (Typical Max)	2.5A @ 115 VAC, 1.5A @ 230 VAC				
OUTPUT	DC Voltage	13.8 V				
	Load Max Current	7.6 A				
	Battery Max current	4 A				
	Total Output Power	160 W				
	Load % @ 70°C	50%				
PROTECTION	Input Protection Device	Hydraulic-Magnetic Circuit Breaker				
	Battery Protection Device	Hydraulic-Magnetic Circuit Breaker				
	Load Protection Device	Hydraulic-Magnetic Circuit Breaker				
	Battery Low Alarm Voltage	<11 VDC				
	Battery Cutoff Voltage	10 VDC				
ENVIRONMENTAL	Working Temperature	-20°C - 60°C (-20°C - 70°C <i>with derating</i>)				
	Working Humidity	20% - 90% RH non-condensing				
	Storage Temperature	-20°C - 85°C				
	Storage Humidity	10-95% RH non-condensing				
ENCLOSURE	Dimensions (H x W x D) (in)	18.2 X 11.7 X 8.2		27.8 X 17.4 X 8.1		28.0 X 17.4 X 15.2
	Weight, Empty (lb)	8.0		14.0		21.0
	Weight, with Controller (lb)	13.0		19.0		26.0
	Material	AL5052-H32 Aluminum Alloy				
	Finish	Polyester Powder Coat				
	Locking Mechanism	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 3R - Field Upgradable to NEMA 4X				
	Mounting	Pole / Wall / Truss Tower				
	BATTERY ARRAY	Battery Bank (Wh)	122.4	330	558	1032
Array Voltage (Nominal)		12 VDC				
Array Capacity @ C5		10.2	27.5	46.5	86	172
Chemistry		Sealed AGM VRLA				
Quantity		1	1	1	1	2
Weight, Total (lb)		8.8	23.0	39.0	67.5	135.0
Weight, Each (lb)		8.8	23.0	39.0	67.5	67.5

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

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UPS12090 SERIES



		UPS12090-C		UPS12090-E	
		UPS12090-C 24L1	UPS12090-C 31L1	UPS12090-E 24L2	UPS12090-E 31L2
OVERVIEW	Model Number				
	System Nominal Voltage	12 VDC			
	Type	Online Industrial UPS			
	Total Weight	46.0	50.0	80.0	88.0
	Alarms	AC OK, Low Battery			
	Maximum Load	90W			
ESTIMATED BACKUP AT LOAD WATTAGE (HOURS)	90W Load	9.5 h	12.7 h	19.0 h	25.3 h
	80W Load	10.7 h	14.3 h	21.4 h	28.5 h
	70W Load	12.2 h	16.3 h	24.4 h	32.6 h
	60W Load	14.3 h	19.0 h	28.5 h	38.0 h
	50W Load	17.1 h	22.8 h	34.2 h	45.6 h
	40W Load	21.4 h	28.5 h	42.8 h	57.0 h
	30W Load	28.5 h	38.0 h	57.0 h	76.0 h
	20W Load	42.8 h	57.0 h	85.5 h	114.0 h
INPUT	10W Load	85.5 h	114.0 h	171.0 h	228.0 h
	Voltage Range AC	90 - 264 VAC			
	Frequency Range	50-60 Hz			
	Efficiency (Typical)	88.00%			
	AC Current (Typical Max)	2.5A @ 115 VAC, 1.5A @ 230 VAC			
OUTPUT	DC Voltage	13.8 V			
	Load Max Current	7.6 A			
	Battery Max current	4 A			
	Total Output Power	160 W			
	Load % @ 70°C	50%			
PROTECTION	Input Protection Device	Hydraulic-Magnetic Circuit Breaker			
	Battery Protection Device	Hydraulic-Magnetic Circuit Breaker			
	Load Protection Device	Hydraulic-Magnetic Circuit Breaker			
	Battery Low Alarm Voltage	<11 VDC			
	Battery Cutoff Voltage	10 VDC			
ENVIRONMENTAL	Working Temperature	-20°C - 57.2°C			
	Working Humidity	20% - 90% RH non-condensing			
	Storage Temperature	-20°C - 60°C			
	Storage Humidity	10-95% RH non-condensing			
ENCLOSURE	Dimensions (H x W x D) (in)	27.8 X 17.4 X 8.1		28.0 X 17.4 X 15.2	
	Weight, Empty (lb)	14.0		21.0	
	Weight, with Controller (lb)	19.0		26.0	
	Material	AL5052-H32 Aluminum Alloy			
	Finish	Polyester Powder Coat			
	Locking Mechanism	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 3X - Field Upgradable to NEMA 4X			
BATTERY ARRAY	Mounting	Pole / Wall / Truss Tower			
	Battery Bank (Wh)	900	1200	1800	2400
	Array Voltage (Nominal)	12 VDC			
	Array Capacity @ C5	75	100	150	200
	Chemistry	LiFePO ₄			
	Quantity	1	1	2	2
	Weight, Total (lb)	27.0	31.0	54.0	62.0
Weight, Each (lb)	27.0	31.0	27.0	31.0	

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