

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°C 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.

150 N Cypress Way • Casselberry, FL 32707
407.339.6786 • www.SolisEnergy.com

Rev 24.3



UPS12090 SERIES

		UPS12090-B		UPS12090-C		UPS12090-E
		UPS12090-B 12A1	UPS12090-B U1A1	UPS12090-C 24A1	UPS12090-C 31A1	UPS12090-E 31A2
OVERVIEW	Model Number					
	System Nominal Voltage	12 VDC				
	Type	Online Industrial UPS				
	Total Weight (lb)	21.8	36.0	71.0	86.5	161.0
	Alarms	AC OK, Low Battery				
	Maximum Load	90W				
ESTIMATED BACKUP AT LOAD WATTAGE (HOURS)	90W	1.4 h	3.3 h	8.3 h	10.3 h	20.6 h
	80W	1.6 h	3.7 h	9.3 h	11.6 h	23.2 h
	70W	1.9 h	4.2 h	10.7 h	13.3 h	26.5 h
	60W	2.2 h	5 h	12.5 h	15.5 h	31.0 h
	50W	2.6 h	5.9 h	14.9 h	18.6 h	37.2 h
	40W	3.2 h	7.4 h	18.7 h	23.2 h	46.4 h
	30W	4.3 h	9.9 h	24.9 h	31.0 h	61.9 h
	20W	6.5 h	14.9 h	37.4 h	46.4 h	92.9 h
	10W	13.0 h	29.7 h	74.7 h	92.9 h	185.8 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 % @ 45°C	100%				
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 - 70°C (with derating)				
	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	830.4	1032	2064
	Array Voltage (Nominal)	12 VDC				
	Array Capacity @ C5	10.2	27.5	69.2	86	172
	Chemistry	Sealed VRLA - Absorbed Glass Mat (AGM)				
	Quantity	1	1	1	1	2
	Weight, Total (lb)	8.8	23.0	52.0	67.5	135.0
Weight, Each (lb)	8.8	23.0	52.0	67.5	67.5	

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

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