

# DEPENDABLE. PRACTICAL. VERSATILE.

## MEET SOLIS ENERGY'S UNINTERRUPTIBLE POWER SUPPLY UPS12410 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 (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
- 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](http://www.SolisEnergy.com)

Rev 26.2



# UPS12410 SERIES

		UPS12410-C		UPS12410-E	UPS12410-3
		UPS12410-C 22A1	UPS12410-C 31A1	UPS12410-E 31A2	UPS12410-3 31A4
<b>OVERVIEW</b>	Model Number				
	System Nominal Voltage	12 VDC			
	Backup System Type	Online UPS			
	Charging Algorithm	Multi Stage			
	Surge Protection	Transient			
	Total Weight (lb)	65.0	67.5	170.0	353.0
<b>ESTIMATED MAX BACKUP TIMES @ 25°C (HOURS)</b>	400W Load	1.2	2.2	4.4	8.8
	350W Load	1.4	2.5	5.0	10.0
	300W Load	1.6	2.9	5.8	11.7
	250W Load	1.9	3.5	7.0	14.0
	200W Load	2.4	4.4	8.8	17.5
	150W Load	3.2	5.8	11.7	23.4
	100W Load	4.7	8.8	17.5	35.1
	50W Load	9.5	17.5	35.1	70.2
<b>INPUT</b>	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	
<b>CHARGING</b>	Boost Charge Voltage	14.4 VDC			
	Float Charge Voltage	13.6 VDC			
	Output Current	35 A			
	Max Charging Temperature	70°C			
<b>PROTECTION</b>	Circuit Breaker Input	10A Dual Pole Hydraulic-Magnetic			
	Circuit Breaker Battery	40A Single Pole Hydraulic-Magnetic			
	Circuit Breaker Load	10A Single Pole Hydraulic-Magnetic			
	Environmental	Over Voltage / Over Temperature			
<b>ENVIRONMENTAL</b>	Working Temperature	-20°C - 60°C (-40°C to 70°C with Derating)			
	Storage Temperature	-40°C - 85°C			
	Working Humidity	20 - 95% RH non-condensing			
<b>ENCLOSURE</b>	Dimensions (H x W x D) (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		21.0	65.0
	Weight, with Controller (lb)	28.0		35.0	83.0
	Material	A5052-H32 Aluminum Alloy			
	Finish	Polyester Powder Coat			
	Fasteners	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			
	Pole / Wall / Truss Tower Mounting	Yes			
	Free Standing / Ground Mounting	No	No		Yes
	Shelf	No	Optional		Yes
<b>BATTERY ARRAY</b>	Array Total Energy Storage	558	1032	2064	4128
	Array Voltage (Nominal)	12 VDC			
	Array Capacity @ C5	46.5	86	172	344
	Chemistry	Absorbed Glass Mat (AGM)			
	Quantity	1	1	2	4
	Weight, Total (lb)	37.0	67.5	135.0	270.0
	Weight, Each (lb)	37.0	67.5	67.5	67.5

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

## POWER WHEN YOU NEED IT.

# UPS12410 SERIES



	Model Number	UPS12410-C		UPS12410-E		UPS12410-3	
		UPS12410-C 24L1	UPS12410-C 31L1	UPS12410-E 24L2	UPS12410-E 31L2	UPS12410-3 24L4	UPS12410-3 31L4
<b>OVERVIEW</b>	System Nominal Voltage	12 VDC					
	Backup System Type	Online UPS					
	Charging Algorithm	Multi Stage					
	Surge Protection	Transient					
	Total Weight (lb)	55.0	59.0	89.0	97.0	191.0	207.0
	<b>ESTIMATED MAX BACKUP TIMES @25°C (HOURS)</b>	400W Load	2.1 h	2.9 h	4.3 h	5.7 h	8.6 h
350W Load		2.4 h	3.3 h	4.9 h	6.5 h	9.8 h	13.0 h
300W Load		2.9 h	3.8 h	5.7 h	7.6 h	11.4 h	15.2 h
250W Load		3.4 h	4.6 h	6.8 h	9.1 h	13.7 h	18.2 h
200W Load		4.3 h	5.7 h	8.6 h	11.4 h	17.1 h	22.8 h
150W Load		5.7 h	7.6 h	11.4 h	15.2 h	22.8 h	30.4 h
100W Load		8.6 h	11.4 h	17.1 h	22.8 h	34.2 h	45.6 h
50W Load		17.1 h	22.8 h	34.2 h	45.6 h	68.4 h	91.2 h
<b>INPUT</b>	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	
<b>CHARGING</b>	Boost Charge Voltage	14.4 VDC					
	Float Charge Voltage	13.6 VDC					
	Output Current	35 A					
	Max Charging Temperature	70°C					
<b>PROTECTION</b>	Circuit Breaker Input	10A Dual Pole Hydraulic-Magnetic					
	Circuit Breaker Battery	40A Single Pole Hydraulic-Magnetic					
	Circuit Breaker Load	10A Single Pole Hydraulic-Magnetic					
	Environmental	Over Voltage / Over Temperature					
<b>ENVIRONMENTAL</b>	Working Temperature	-20°C - 60°C (-40°C to 70°C with Derating)					
	Storage Temperature	-40°C - 85°C					
	Working Humidity	20 - 95% RH non-condensing					
<b>ENCLOSURE</b>	Dimensions (H x W x D)	27.8 x 17.4 x 8.1 inches		28 x 17.4 x 15.2 inches		34.4 x 31.3 x 18.5 inches	
	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					
	Fasteners	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				Pole / Wall / Ground / Truss Tower	
Shelf	Optional				Yes		
<b>BATTERY ARRAY</b>	Array Total Energy Storage	900	1200	1800	2400	3600	4800
	Array Voltage (Nominal)	12 VDC					
	Array Capacity @ C5	75	100	150	200	300	400
	Chemistry	LiFePO <sub>4</sub>					
	Quantity	1	1	2	2	4	4
	Weight, Total (lb)	27.0	31.0	54.0	62.0	108.0	124.0
	Weight, Each (lb)	27.0	31.0	27.0	31.0	27.0	31.0

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

## POWER WHEN YOU NEED IT.