

UX Inverter/Charger

Reliable power for modest energy needs, 230 VAC/50 Hz



The UX Series Inverter/Charger is an economical and efficient choice for moderate power needs. It is easy to operate and provides enough power to run electric tools and many kitchen appliances. This compact inverter is available in 500 and 1100 watt models and can start and run appliances up to three times the continuous rating. The UX is extremely efficient and consumes as little as one-half a watt under no-load conditions.

Features

- ▶ Quiet, high efficiency operation.
- ▶ Backed by a two-year warranty.
- ▶ 500 VA and 1100 VA continuous output models.
- ▶ Front panel LED indicator and adjustable "Search Mode" switch.
- ▶ Selectable settings for flooded lead acid, gel, or absorbed glass mat (AGM) batteries.
- ▶ Low battery, overload, and high battery, over temperature protection circuitry.
- ▶ Fast switching, grid to battery and battery to grid, for backup power (SB models only).
- ▶ Low idle current (less than one watt) conserves energy when no loads are present.
- ▶ Generator compatible for charging (SB models only).

Options

- ▶ SB option: built-in, temperature compensating, three-stage battery charging system and AC input transfer switch to ensure your batteries are properly maintained at all times.
- ▶ Remote battery temperature sensor (BTS) increases battery performance and life (SB models only).
- ▶ Remote control and status indicator (RC8) allows you to view system status remotely.

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Electrical Specifications

Models	UX512E(SB)	UX1112E(SB)	
AC Input Voltage	230 VAC	230 VAC	
AC Input Current for Max. Charge	2.5 amps	5 amps	SB models only
AC Input Current for Max. Pass Through	15 amps	15 amps	SB models only
Continuous Power (@25 °C)	500 VA	1100 VA	
Nominal Power	500 VA	1100 VA	
Efficiency (Peak)	92%	92%	
Output Voltage (RMS)	230 VAC	230 VAC	
Waveform	Modified sine wave - all models		
Output Voltage Regulation	± 5%	± 5%	
Frequency (Nominal)	50 Hz	50 Hz	± 0.01% crystal controlled
Continuous AC Output (@25 °C)	2.0 amps	4.8 amps	
100 mSec Surge Capability	10 amps	10 amps	
Automatic Transfer Relay	15 amps	15 amps	SB models only
DC Input Voltage (Nominal)	12 VDC	12 VDC	
DC Input Voltage Range	9.5 - 16.7 VDC	9.5 - 16.7 VDC	
DC Current at Rated Power (Nominal)	41.7 amps	91.7 amps	
Idle Consumption (Typical at Full Voltage)	5 watts	5.5 watts	
Search Mode Consumption	< 1 watt	< 1 watt	
Maximum Charge Rate (Adjustable)	25 amps	50 amps	SB models only
Load Sensing (Inverter Mode)	Adjustable, 5 to over 100 watts (5 watts default) - all models		
Power Factor (Allowed)	0.5 to 1.0 pf	0.5 to 1.0 pf	

General Specifications

Specified Temperature Range	32 °F to 77 °C (0 °C to 25 °C)		
Enclosure Type	Indoor, ventilated, steel chassis with powdercoat finish		
Unit Weight	26 lb (11.8 kg)	30 lb (13.6 kg)	
Shipping	30 lb (13.6 kg)	34 lb (15.4 kg)	
Dimensions (H x W x D)	6" x 10.25" x 15.5" (15.2 cm x 26 cm x 39.4 cm)		
Shipping Dimensions (H x W x D)	20.5" x 27" x 18" (52 cm x 69 cm x 45.7 cm)		
Mounting	Wall or shelf mount		
Warranty	2 years		
Part Numbers	UX512E, UX1112E - UX 50 Hz Inverters		
	UX512ESB, UX1112ESB - UX 50 Hz Inverter/Chargers		

Features & Options

Cooling	Standard on/off DC cooling fan on UX1112E(SB) models
Three-stage Charging	SB models only - standard, three-stage (bulk, absorption, and float)
Control Panel	Standard - on/off switch, LED display, and load sensing potentiometer
High and Low Battery Protection	Standard - automatically shuts down batteries to prevent damage
Battery Temperature Sensor	BTS - optional remote battery temperature sensor for increased battery performance - for use only with SB models
Remote Control	RC8/50 - optional remote control and status indicator with 50' cable

Regulatory Approvals

UX512E(SB) and UX1112E(SB) models carry the CE mark