

UX Inverter/Charger

Reliable power for modest energy needs



Applications

- ▶ **Backup Power:** Automatically switching your power to backup batteries when the power goes out, the UX Inverter/Charger can power loads from 500 to 1500 watts and can start and run appliances up to three times the continuous rating.
- ▶ **Off Grid:** The UX supplies clean, modified sine wave power to remote locations with modest power needs.

Features

- ▶ Quiet, high efficiency operation.
- ▶ Backed by a two-year warranty.
- ▶ 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 overcharge 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

- ▶ By ordering the UX with the SB option, the inverter comes with a 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	UX612(SB)	UX1112(SB)	UX1512(SB)	UX512E(SB)	UX1112E(SB)	
AC Input Voltage	120 VAC	120 VAC	120 VAC	230 VAC	230 VAC	
AC Input Current for Max. Charge	5 amps	9.5 amps	13 amps	2.5 amps	5 amps	SB models only
AC Input Current for Max. Pass Through	30 amps	30 amps	30 amps	15 amps	15 amps	SB models only
Continuous Power (@25 °C)	400 VA	600 VA	800 VA	500 VA	1100 VA	
Nominal Power	600 VA	1100 VA	1500 VA	500 VA	1100 VA	Not UL verified
Efficiency (Peak)	92%	92%	92%	92%	92%	
Output Voltage (RMS)	120 VAC	120 VAC	120 VAC	230 VAC	230 VAC	
Waveform	Modified sine wave - all models					
Output Voltage Regulation	± 5%	± 5%	± 5%	± 5%	± 5%	
Frequency (Nominal)	60 Hz	60 Hz	60 Hz	50 Hz	50 Hz	± 0.01% crystal controlled
Continuous AC Output (@25 °C)	3.4 amps	5.0 amps	6.7 amps	2.0 amps	4.8 amps	
100 mSec Surge Capability	20 amps	20 amps	20 amps	10 amps	10 amps	
Automatic Transfer Relay	30 amps	30 amps	30 amps	15 amps	15 amps	SB models only
DC Input Voltage (Nominal)	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	
DC Input Voltage Range	9.5 - 16.7 VDC	9.5 - 16.7 VDC	9.5 - 16.7 VDC	9.5 - 16.7 VDC	9.5 - 16.7 VDC	
DC Current at Rated Power (Nominal)	40 amps	60 amps	75 amps	41.7 amps	91.7 amps	
Idle Consumption (Typical at Full Voltage)	5 watts	5.5 watts	7 watts	5 watts	5.5 watts	
Search Mode Consumption	< 1 watt	< 1 watt	< 1 watt	< 1 watt	< 1 watt	
Maximum Charge Rate (Adjustable)	25 amps	50 amps	65 amps	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	0.5 to 1.0 pf	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)	33 lb (15 kg)	26 lb (11.8 kg)	30 lb (13.6 kg)	
Shipping	30 lb (13.6 kg)	34 lb (15.4 kg)	37 lb (16.8 kg)	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	UX612, UX112, UX1512 - UX 60 Hz Inverters					
	UX612SB, UX1112SB, UX1512SB - UX 60 Hz Inverter/Chargers					
	UX512E, UX1112E - UX 50 Hz Inverters					
	UX512ESB, UX1112ESB - UX 50 Hz Inverter/Chargers					

Features & Options

Cooling	Standard on/off DC cooling fan on UX1112(SB), UX1512(SB), and 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

UX612(SB), UX1112(SB), and UX1512(SB) models are UL Listed to UL 1741 1st Edition

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