

ECO Series Characteristics



On Inverter

- High overload ability
- Low quiescent current

On Battery Charger

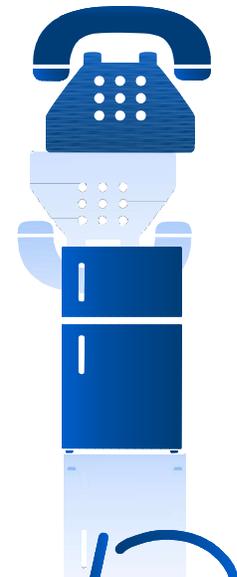
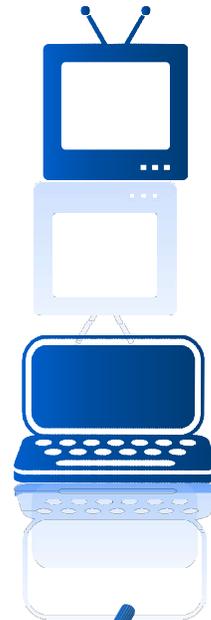
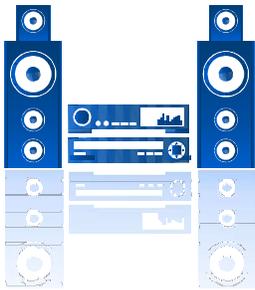
- 3-step intelligent battery charging
- Uses PFC (power factor correction) for charger

On Transfer

- 10ms typical transfer time
- 5 to 20 s delay before transfer when AC resumes

Optional

- Battery Temperature Sensor



Applications



- Modified Sine Wave (3 Step Wave)
- Digital microprocessor control
- Rapid and synchronous transfer, compatible with computers
- Surge supressor
- Protection against extreme battery discharge
- Electronic protection against overloads and short circuits
- Batteries overload protection due to charger failure
- Three steps battery charger, adjustable voltage and current.
- Selectable Low AC voltage input 80-95VAC.
- Models from 1.5KW to 3.5KW
- Input voltage protector Mode when BYPASS position.
- FULL BRIDGE topology
- Sustainable nominal power in continuos way
- High overload capacity
- Automatic cooling fan with thermal sensor
- Modular construction
- Created design for latinamerican electric
- Breaker protection for load and for charger
- On the front panel, there are 4 DIP switches which enable users to customize the performance of the device.

SW1 OFF, SW2 OFF: Charging current is 0%
 SW1 OFF, SW2 ON: Charging current is 25%
 SW1 ON, SW2 OFF: Charging current is 50%
 Sw1 ON, SW2 ON: Charging current is 100%

Switch NO	Switch Function	Position:OFF	Position: ON
SW3	AC Input Range	80-135VAC	90-135VAC
SW4	Battery float selector	Flooded 13.8V	AGM 13.2V

Model	ECO-1512	ECO-2524	ECO-3524
Inverter Mode Specification			
Capacity (W)	1500	2500	3500
Waveform	Modified sinewave		
Output voltage	120Vac ~+3%		
Output frequency	60Hz ± 1Hz		
Overload capacity	Overload > 103%, Output down voltage when loaded after buck: 105% < load < 125%, delay 30S protection, 130% LOAD 200ms Shut down. The fault light is on.		
Output short circuit protection	Shut down output after 200 ms		
Battery voltage	12V	24V	
Voltage range	12V(10.5Vdc ~15Vdc) ±0.3Vdc /24V*2		
Battery overvoltage protection	12V(Battery voltage>16V ± 0.3Vdc overvoltage alarm >16.5V ± 0.3Vdc change to error); 24V*2		
DC low voltage alarm	12V(10.5 ±0.3Vdc) / 24V*2		
DC shutdown voltage	12V(10.0 ±0.3Vdc) / 24V*2		
Transfer time (AC to Battery mode)	Max. 10ms		
Transfer time (Battery to AC mode)	Max. 10ms		
Transfer time (AC low/high voltage to battery mode)	Max. 6ms		
AC Mode Specification			
Input voltage	120Vac / 60Hz		
Output voltage	Same as Input		
Input voltage range	80~135V (For Home Appliances) 95~135V (For Personal Computers)		
Frequency range	43~64HZ (±1HZ)		
Recover to AC mode from low voltage	85V(For Home Appliances) 100V(For Personal Computers)		
Change to battery mode while input high voltage	135Vac±3V		
Recover to AC mode from high voltage	132Vac±3V		
Output short circuit protection	Recover breaker		
Efficiency (AC Mode)	>95%		
DC-AC Transfer delay time	10 seconds		
Charging Current Specification			
3 - stage charging	(Constant current, Constant voltage, Float charge)		
Charging current (±5A)	50	50	60
(Charging current adjustment)	0%,25%,50%,100%		
OTHER			
Fan control	Variable speed		
Over temperature protection	Temperature switch protection 95°C		
Noise	≤40Db		
Humidity	0%~95%		
Operating temperature	0°C~+40°C		
Weight (kg)	16	18	22
Dimension LxHxD (cm)	47x23x18		56x23x18

NOTE: Specifications may change without previous notice.

Diagram

