



SQUARE WAVE INVERTER

ECO series



Features:

- Square-wave output
- LED status indication
- Intelligent alarm functions
- Mode and parameter setting, setting of the range of input voltage and battery charging
- Smart fan control
- Less conversion time
- Automatic recovery of over temperature protection
- The current is output by dc-to-ac converter through isolation transformer, the output current features small interference and strong impact resistance
- Perfect and reliable low battery voltage, output overload and output short circuit protection functions



Technical data sheet

Model:	ECO-1012	ECO-1512	ECO-1524	ECO-2024	ECO-3024
Rated output power	1000W	1500W	1500W	2000W	3000W
Input voltage waveform	Sinusoidal wave				
Rated input voltage	120Vac				
Input voltage range	80~135V(wide range)/95~135V(narrow range)				
Input frequency	60Hz				
Efficiency(commercial power mode)	>95%				
Delay time of commercial power	10 Seconds				
Output voltage of converter	120Vac-20%~+15%				
Output frequency of converter	60Hz ± 1Hz				
DC input voltage	12V			24V	
DC working voltage range	12V(10.5Vdc ~15Vdc) ±0.3Vdc /24V*2				
Battery overvoltage protection	12V(Battery voltage>16V ± 0.3Vdc over voltage alarm,>16.5V ± 0.3Vdc Be turned to fault)24V*2				
DC power down voltage	12V(10.0 ±0.2Vdc)/24V*2				
Overload capacity	Overload:>103% output voltage reduction, the load after output voltage reduction shall be 105%<load<125% 30S delay protection and greater than 130%±10% immediate protection				
Output short circuit protection of converter	After 200ms of software time delay, the output short circuit will be turned to fault, closed and output.				
Three-stage charging	Constant-current, constant-voltage and floating charge				
Fast charge voltage	12V(14.5V±0.2V)/ 24V*2				
Floating charge voltage	Flooded	12V(13.8V±0.2V)/ 24V*2			
	AGM	12V(13.2V±0.2V)/ 24V*2			
Maximum charge current(±5A)	30A	45A	20A	30A	45A
4-gear adjustable charging current	0%, 25%, 50%, 100%				
Automatic recovery of commercial power	After cold start of battery and battery low voltage protection, the commercial power is restored automatically its power supply function.				
Fan control	1. In the commercial power mode, CPU will conduct intelligent control in time based on charging current. 2. In the battery mode, CPU will conduct intelligent control based on charge capacity. 3. Timing control.				
Over temperature protection	95°C±5°C				
Noise	≤40Db				
Relative operating humidity	0%~95%				
Ambient operating temperature	0°C ~ +40°C				
Machine size (length× width× height)mm	424*222*179				