



## High Frequency PWM Sinewave Inverter

## COTEK 1500 Watt

The **COTEK 1500** is a PWM High Frequency Sinewave Inverter of the most advanced line of mobile AC power systems available. It provides instant clean AC power anywhere and at anytime as long as a battery is at hand. DC power from sources such as car, truck, boat, standby battery or solar modules is converted into pure sinusoidal 230 Vac / 50Hz mains power. State of the art technology ensures high reliability and excellent performance. The COTEK 1500 is especially suitable for solar applications.

### Features:

Microprocessor based design, accurate and stable frequency, very low harmonic distortion, rugged, compact and lightweight, high efficiency, quiet running, capable of driving highly reactive loads such as electronic tools and appliances. Other features include high current start up capability, protection against short circuit, reverse polarity, over load, under/over DC input voltage, and automatic load sensing, which is especially important for solar applications.

### Typical Applications:

Lighting, power tools with speed control, general electrical tools, laboratory equipment, electronic instruments, medical equipment, emergency power equipment, computers, laser printers, TV sets, radios, satellite receivers, fans, small water pumps, etc.



## TECHNICAL SPECIFICATIONS

MODEL	S1500-112	S1500-124	S1500-148	APLS-CTK-1500-12	APLS-CTK-1500-24	APLS-CTK-1500-48
Continuous Output Power	1500W	1500W	1500W	1500W	1500W	1500W
Surge Rating	2000W	2000W	2000W	2000W	2000W	2000W
Input Voltage	12V	24V	48V	12V	24V	48V
Output Voltage	110 / 115 / 120 ± 3%			220 / 230 / 240 ± 3%		
Frequency (selectable)	50 / 60 Hz +/- 0.05%			50 / 60 Hz +/- 0.05%		
Efficiency (full load)	85%	87%	88%	86%	89%	90%
No Load Current	<1.5 Watt Saving Mode					
Output Waveform	Pure Sinewave < 3% THD					
Output Voltage Regulation	110 / 115 / 120Vrms - 10% / +4%			220 / 230 / 240Vrms - 10% / +4%		
Input Voltage Range	10 - 16Vdc	20 - 32Vdc	42 - 62Vdc	10 - 16Vdc	20 - 32Vdc	42 - 62Vdc
Protection	Overload, Short Circuit, Reverse Polarity (Fuse), Over / Under Input Voltage, Over Temperature					
Volt / Load Level Indication	Volt Meter / Watt Meter					
Power Saving Recov. Time	5 Seconds					
Remote Control	CR-5 (optional)					
Operating Temp. Range	0 - 40 °C					
Storage Temp. Range	- 30 °C to 70 °C					
Cooling	Cooling Fan (thermostatically controlled)					
Compliance (EMC)	FCC Class B			EN50081-1:1992, EN50082-1:1992, EN55022B:1994, EN61000-4-2:1995, EN61000-4-3:1996, EBV50204:1995		e-Mark e13-020932
Safety	UL 458			EN60950		
Dimensions	L = 390 x W = 275 x H = 105 mm					
Weight	7.0 kg					

The manufacturer reserves the right to change specifications without prior notice.