

STANDALONE INVERTER SYSTEM

POWER 500 VA / 800 VA / 1500 VA INPUT 48 Vdc OUTPUT 230 Vac



DESCRIPTION

Y-ONE is a compact inverter providing a pure sine wave AC supply. In conjunction with a DC Power system, it provides an excellent AC backup solution. It uses the latest inverter technology, providing superior energy efficiency in a compact size.

The "Twin Sine Innovation" (TSI) technology provides high efficiency of up to 92% reducing operating costs .

Model available in rear terminal AC output or front 2xIEC socket protected by fuse. The available models present either a rear connected bulk AC outlet or 2 front connected IEC output. See pictures.

Optional Manual By Pass available for easy Y-One module swapping.

APPLICATIONS

All business critical applications and all types of AC loads. The design is cost effective, installation easy.

MAIN FEATURES

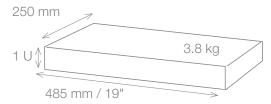
- >>> Dual input sources (AC & DC) with wide AC input range 150 Vac to 265 Vac
- >>> By-Pass function embedded
- >>> Compact design
- >>> High efficiency
- >>> Transfer time AC to DC and DC to AC reduced to 0 ms
- >>> Short depth allows 300 mm rack integration





	EPC-500 (48V/230)	EPC-800 (48V/230)	EPC-1500 (48V/230)
GENERAL			
EMC (immunity)	EN 61000-4-2 up to 6		
EMC (emission) (class)	EN 55022 (A)		
Safety	IEC 60950-1- EN62040-1-1		
Cooling / Isolation	Forced / Doubled		
MTBF	240 000 hrs		
Efficiency (Typical): Enhanced power conversion / on line	92%	/ 89%	94% / 90%
Dielectric strength DC/AC	4300 Vdc		
-	3 disconnection levels on AC out and DC in power ports		
True Redundant Systems – compliant	4 disconnection levels on AC in port		
RoHS	Compliant		
Vibration	GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test		
Operating conditions	Designed for installation in an IP20 or IP21 environment. When installed in a dusty or corrosive environment, appropriate measures (air filtering,) must be taken.		
Altitude above sea without de-rating	< 1500 m / derating > 1500 m - 0.8 % per 100 m		
Ambient / storage temperature / relative humidity	-20 to 50 ° C / -40 to 70 ° C / 95 %, non-condensing		
Material (casing)		Coated steel	
AC OUTPUT POWER			
Nominal Output power (VA) / (W)	500 / 400	800 / 640	1500 / 1200
hort time overload capacity	150 % (15 seconds) 110 % permanent within T° range		
Admissible load power factor	0 lagging to 0 leading		
OC INPUT SPECIFICATIONS			
lominal voltage (DC)	48 V		
/oltage range (DC)	40 - 60 V		
Nominal current (at 40 V and 400W (Y-one 500)/640 W (Y-one 300)/1200 W (Y-One 1500))	11.2 A	18 A	33 A
Maximum input current (for 15 second) / voltage ripple	17 A / 2 mV PSO	27 A / 2 mV PSO	50 A / 2 mV PSO
nput voltage boundaries		N/A	
AC INPUT SPECIFICATIONS			
Nominal voltage (AC)	230 V		
/oltage range (AC)	150-265 V		
Brownout	150 to 185 V linear derating		
	400 VA @ 150 Vac	640 VA @ 150 Vac	1200 VA @ 150 Vac
Conformity range before transfer to DC		Adjustable	
Power factor	> 99%		
Frequency range (selectable) / synchronization range	50 – 60 Hz / range 47 – 53 Hz / 57 – 63 Hz		
AC OUTPUT SPECIFICATIONS		3.	
Nominal voltage (AC*)		230 V	
Frequency / frequency accuracy	50 or 60 Hz / ±0.01 %		
Total harmonic distortion (resistive load)	< 1.5 %		
Load impact recovery time		0.4 ms	
Furn on delay		20 s	10.00.00
Nominal current. Protected against reverse current	2.2 A	3.5 A	6.5 A
Crest factor at nominal power			0.071
•		2.8 : 1	
With short circuit management and protection	10 x I _n for 20 msec - Available while Mains is available at AC input port		
Short circuit clear up capacity	With magnitude control and management 2.1 , during 15 s and 1.5 , after 15 s		
Short circuit current after clear up capacity		Z. 1 In during 10 S and 1.5 In after 15 S	
TRANSFER TIME PERFORMANCE AC to DC and DC to AC		0 mg / 0	
Max. voltage interruption / total transient voltage duration (max)		0 ms / 0 ms	
SIGNALING & SUPERVISION		Synoptic LED on front of the module	
SIGNALING & SUPERVISION Display Alarms output / supervision	Dry	Synoptic LED on front of the module y contact on shelf at the rear of the module	dule

TSI Y-ONE 230 - Datasheet v1.1 Specifications can change without notice. New data will be updated on our Web site: www.cet-power.com. The present equipment is protected by several international patents, trademarks and copyrights.



*Operation within lower voltage networks leads to de-rating of power performances.

