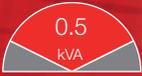


Y-ONE 120 VAC



STANDALONE INVERTER SYSTEM

POWER 500 VA
INPUT 48 Vdc
OUTPUT 120 Vac



DESCRIPTION

Y-ONE is an upscale stand alone inverter providing a pure sine wave AC supply. It is the corner stone of an AC backup solution compatible with any kind of DC Power system. At the leading edge of conversion technology it operates with superior efficiency with no compromise in quality and performance.

The "Twin Sine Innovation" (TSI) technology is designed to empower Business Continuity Solutions with great value for money.

Optional Manual ByPass available for module live replacement.

APPLICATIONS

Convenient for any Mission Critical Applications. It reveals its full worth in large deployments when energy savings at module scale turn into substantial OPEX savings at global level.

Handle any type of AC load including laser printers, compressors and induction motors.

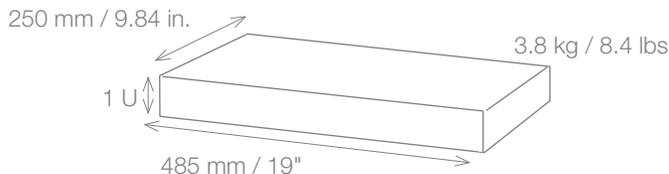
Compact, friendly Plug & Play installation, suitable for racks and wall mount applications.

MAIN FEATURES

- » Permanent AC to AC double conversion
- » Great disturbance rejection rate
- » Short depth, allow 300mm rack integration
- » Operates up to 65°C (derating applies from 50°C)
- » AC output with 15-15R NEMA socket

	EPC 48 / 120 - cUL	EPC 48 / 120 - non UL
GENERAL		
Applicable Standards	cULus 1778 Listed / IEC 1000-4 / FCC part 15 / ROHS	
Cooling / Isolation DC/AC	Forced	
MTBF (module)	240 000 hrs	
Efficiency (Typical): Enhanced power conversion / on line	90.5% / 85.5%	
Dielectric strength DC/AC	4,300 Vdc	
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 ambience / Ingress Protection	Free from dust and corrosive materials / NEMA 1 ⁽²⁾	
Altitude above sea	< 1500m; no derating >1500m; 0.8 % derating / 100 m	
Operating temperature (Ambient & measured @ air inlet)	-20 to 50 °C; -4°F to 122°F for rated power 50 °C to 65°C with 2%/°C derating ^{1,4} 122°F to 149°F with 1%/°F derating ^{1,4}	
Ambient / storage temperature / relative humidity	-40° to 70 ° C / -40°F to 158°F / 95 %, non-condensing	
Material (casing)	Coated steel - ALU ZINC	
AC OUTPUT POWER		
Nominal Output power	500 VA / 400 W	
Short duration overload capacity	150 % (15 seconds)	
Long duration overload capacity	110 % permanent	
Admissible load power factor	Full VA power rating from 0 inductive to 0 capacitive Limited to W power rating from Pf 0,8 to 1	
Internal temperature management and switch off	Automatic	
DC INPUT SPECIFICATIONS		
Nominal voltage (DC) (Operating Range)	48 V (40 - 60 V)	
Nominal current (at floating voltage and 400W output)	8.75 A ⁵	
Voltage ripple	<2 mV Psopho	
Input voltage boundaries	40 V to 60 V user selectable	
Connections	Terminal block ⁵	
AC INPUT SPECIFICATIONS		
Nominal voltage (AC) (Operating range with full rating)	120 Vac L-N (95 – 150 Vac)	
Conformity range before transfer to DC	Fixed	
Power factor	> 99%	
Frequency range (selectable) / synchronization range	50 – 60 Hz / range 47 – 53 Hz / 57 – 63 Hz	
Nominal current (at 120Vac and 400W output)	3.70 A ⁵	
Connections	3ft power cord with NEMA 5-15R plug	Terminal block
AC OUTPUT SPECIFICATIONS		
Nominal voltage (AC*)	120 Vac L-N	
Frequency / frequency accuracy	50 or 60 Hz / 0.03 %	
Total harmonic distortion (resistive load)	< 1.5 %	
Load impact recovery time	0.4 ms	
Turn on delay	30 s	
Nominal current. Protected against reverse current	4.2 A ⁵	
Crest factor at nominal power with short circuit management and protection	2.0	
Short circuit clear up capacity when AC is not present	1.5 x I _n for 15 s	
Short circuit current after clear up capacity	4.62 A	
Connections	No.1 NEMA 5-15R receptacle	Terminal Block
ENERGY SOURCE CHANGEOVER		
Total transient voltage duration (max) (as seen from the load)	0 s	
Maintenance Bypass (MBP)	Optional	
SIGNALING & SUPERVISION		
Display	LED w/module status and power bargraph	
Alarms output / supervision	No2 Dry Contacts (Maj, Min) located on the rear	
Remote Monitoring	None	
Remote on / off	On terminal block located on the rear	

TSI Y-ONE 120 – 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.



Illustrations are non-binding and may include customized fittings.

Leading AC Backup Technology

- *Operation within lower voltage networks leads to de-rating of power performances.
- 1 Derating is not UL certified.
- 2 Specific execution can be provided on request.
- 3 While the boost function is enabled AC source present
- 4 Automatic temperature management and cut off
- 5 Refer to specific document for NEC compliance for protections and cable sizing

