



ALPHA
OUTBACK
ENERGY

» Y-ONE 800 - 48/230



TELECOM



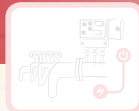
DATAKOM



MASS TRANSIT



OIL & GAS



POWER UTILITIES



STANDALONE INVERTER SYSTEM

POWER 800 VA
INPUT 48 Vdc and 230 Vac
OUTPUT 230 Vac



DESCRIPTION

This standalone inverter is capable of converting a 48 Vdc power source into a pure 230 Vac sine wave.

An additional AC input is used under normal conditions to achieve an overall conversion efficiency of 92%. In the event of a grid failure, it automatically switches to the DC to secure the loads.

With modules in place for many years, the Y-One is extremely reliable. This module exists in two versions: with IEC connector or with bulk connections.

APPLICATIONS

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

MAIN FEATURES

- » Extra AC input for increased efficiency
- » High reliability
- » No disturbances on DC loads & batteries
- » Easy maintenance

Illustrations are non-binding and may include customized fittings.

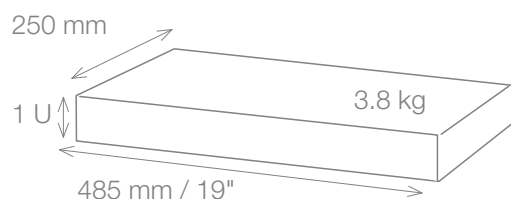
Leading AC Backup Technology



	Y-One 800 VA - 48/230 - IEC connector	Y-One 800 VA - 48/230 - Bulk Output
GENERAL		
Part Number	T351730202	T351730201
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%	
Dielectric strength DC/AC	4300 Vdc	
True Redundant Systems – compliant	3 disconnection levels on AC out and DC in power ports 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)	800 / 640	
Short time overload capacity	150 % (15 seconds) 110 % permanent within T° range	
Admissible load power factor	0 lagging to 0 leading	
DC INPUT SPECIFICATIONS		
Nominal voltage (DC)	48 V	
Voltage range (DC)	40 - 60 V	
Nominal current (at 40 V and 640 W)	18 A	
Maximum input current (for 15 second) / voltage ripple	27 A / 2 mV PSO	
Input voltage boundaries	N/A	
AC INPUT SPECIFICATIONS		
Nominal voltage (AC)	230 V	
Voltage range (AC)	150 - 265 V	
Brownout	150 to 185 V linear derating 640 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		
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	
Turn on delay	20 s	
Nominal current. Protected against reverse current	3.5 A	
Crest factor at nominal power	2.8 : 1	
With short circuit management and protection		
Short circuit current capacity	2.1 I _n during 15 s and 1.5 I _n after 15 s	
TRANSFER TIME PERFORMANCE AC to DC and DC to AC		
Max. voltage interruption / total transient voltage duration (max)	0 ms / 0 ms	
SIGNALING & SUPERVISION		
Display	Synoptic LED on front of the module	
Alarms output / supervision	Dry contact on shelf at the rear of the module	
Remote on / off	On rear terminal of the module	

Y-ONE 800 - 48/230 - Datasheet - v1.0 Specifications can change without notice. New data will be updated on our Web site: www.cet-power.com or www.alpha-outback-energy.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.



Illustrations are non-binding and may include customized fittings.

Leading AC Backup Technology

Worldwide Corporate Offices

Headquarter Germany

Hansastraße 8
D-91126 Schwabach
Tel: +49 9122 79889 0
Fax: +49 9122 79889 21
Mail: info@alpha-outback-energy.com

Eastern Europe

ee@alpha-outback-energy.com

Middle East

me@alpha-outback-energy.com

France and Benelux

fbnl@alpha-outback-energy.com

Spain

spain@alpha-outback-energy.com

Russia

russia@alpha-outback-energy.com

Africa

africa@alpha-outback-energy.com