



Telecommunications



Data centers



Industries



Renewable

STAND-ALONE INVERTER SYSTEM Y-ONE 500

INVCETYONE500



DESCRIPTION

This stand-alone 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



STAND-ALONE INVERTER SYSTEM Y-ONE 500



INVCETYONE500

SPECIFICATIONS

	INVCETYONE500IEC - IEC connector	INVCETYONE500B - Bulk Output
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%	
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 of ce 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	
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 400W)	11.2 A	
Maximum input current (for 15 second) / voltage ripple	17 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 400 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	

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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	2.2 A
Crest factor at nominal power	2.8 : 1
With short circuit management and protection	
Short circuit current capacity	2.1 In during 15 s and 1.5 In 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
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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

