Inverter, Direct to alternative converter 230Vac 50Hz 200VA output

WR175-DC-AC

- ***DC input***
  12Vdc, 24Vdc, 48Vdc, 72Vdc
  110Vdc, 115Vdc, 125Vdc, 250Vdc
- ***230Vac Output***
  50 Hz quasi sine
  power 200VA
  overload admissible 400VA
- ***Rail DIN mounting,***
  natural convection cooling
- ***High efficiency*** *>86% typical*
- ***Input / Output isolation*** *4000Vac*

The WR175 is a quasi-sine DC-AC converter able to supply a local alternative voltage from battery or DC network. It incorporates input regulation ensuring a regulated and protected alternating output voltage.

Specifications:

- Switching mode inverter allow high power density without heating due to the high efficiency of electronic.

- Wide DC input range

Overload admissible 200% during 10sec
Short-circuit protected
Reverse polarity protected
Under voltage protected (lockout)
Thermal protected (limitation of output power)
Natural convection cooling
Low consumption with no load

Features:

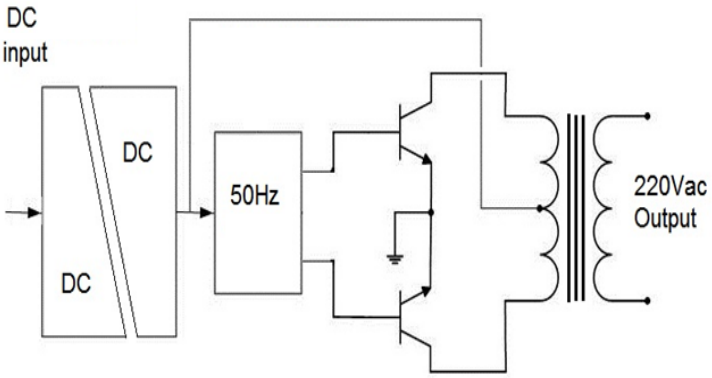
DIN rail mounting or wall mounting,
Protection rating IP20,
Conformal coating for electronic protection,
Non sensitive to dust and humidity,
Resistant to shock and vibration,
Connection with pluggable terminal block (section up to 4 mm²).
Build-in EMC filter according to EN55022 class A

(Specific output voltage or frequency available on request)

Implementation recommendations:

- primary protection with fuse recommended (10A delayed)
- maintain a spacing between devices for natural convection
- horizontal mounting recommended

Internal synoptic



Version and order code:

Request a quote

WR175-DC-AC-P :
- Rating DC input: 12V, 24V, 48V, 110V, 115V, 125V, 250V
- Rating AC output: 230Vac, 50Hz by default
- Rating power : 200VA

Power supply

Input voltage +/- 15%
12Vdc, 24Vdc, 48Vdc, 72Vdc,
110Vdc, 115Vdc, 125Vdc, 250Vdc
other input on request in wide range

Typical efficiency	> 86%
Inrush current	10A typical

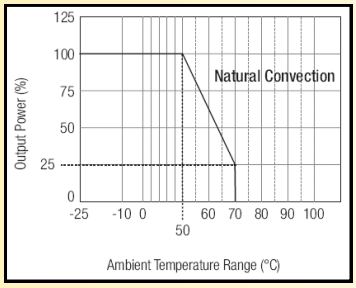
Output

Alternative voltage	230Vac quasi-sine
shape of output wave	Modified sinusoidal wave
Output accuracy	+/- 5% for rated input
Frequency	50Hz +/- 2Hz

Load regulation (output current variation) : +/-3%
Line regulation (input variation) : +/-1%

Thermal stability :	+/-0.07% / °C
Overload protection:	200% typical
Short circuit protection:	5x20mm fuse

Output power function of ambient temperature



ENVIRONNEMENT

Operating temperature	-25°C to 50°C (natural convection cooling)
Derating with temperature	2.5% / °C above 50°C
Thermal protection	85°C internal
Storage temperature	-25°C to 85°C
Humidity	85 % (not condensed)
Insulation resistance	> 100 Mohms @ 500Vdc
Dielectric strength	4000VAC (input / output)
Weight	1500g.
Protection rating	IP20
MTBF (MIL HDBK 217F)	> 500 000 hours @ 25°C
Life time	> 150 000 hours @ 30°C

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	*EN 61000-4-8 AC MF*	*EN 55011*
EN 61000-4-3 RF	*EN 61000-4-9 pulse MF*	
EN 61000-4-4 EFT	*EN 61000-4-11 AC dips*	*group 1*
EN 61000-4-5 CWG	*EN 61000-4-12 ring wave*	*class A*
EN 61000-4-6 RF	*EN 61000-4-29 DC dips*	

WIRING AND OUTLINE DIMENSIONS: