

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

- **DC input**

12Vdc, 24Vdc, 48Vdc, 600Vdc

- **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)

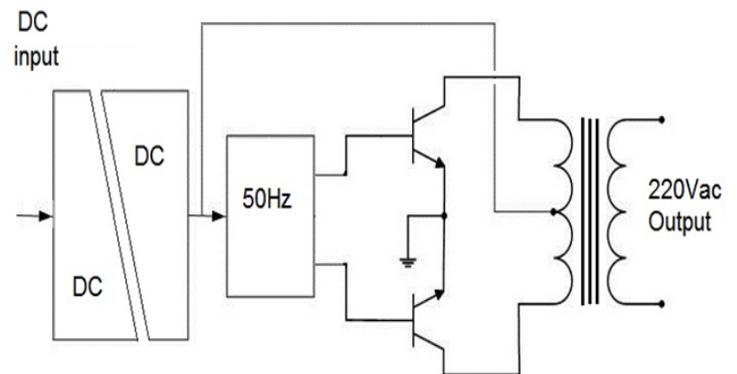
Implementation recommendations:

- 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, 600v

- Rating AC output: 230Vac, 50Hz by default

- Rating power : 200VA

Power supply

Input voltage +/- 15%
12Vdc, 24Vdc, 48Vdc,....600Vdc
other input on request in wide range

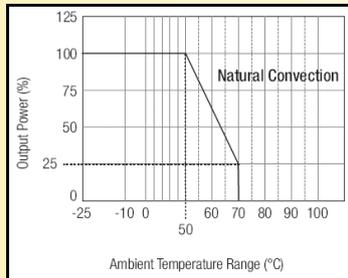
Typical efficiency > 86%
Inrush current 10A typical

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 class A	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave		
EN 61000-4-6 RF	EN 61000-4-29 DC dips		

WIRING AND OUTLINE DIMENSIONS:

