

Inverter, Direct to alternative converter 20VA to 100VA 230Vac / 115Vac WR140-Dc-Ac



• DC input

12Vdc, 24Vdc, 48Vdc,...350Vdc

• 230Vac Output, 115Vac

50 Hz or 60Hz, 400Hz quasi-sine
output power : 20VA to 100VA

• Rail DIN mounting

natural convection cooling

• High efficiency >87% typical

• High input / output isolation 4000 Vac



The WR125 is a quasi-sine AC-DC converter for powering various AC devices 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

Overheating protected (current limiting)

Short-circuit protected (fuse)

Reverse polarity protected

Under voltage protected (locking)

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,

- high resistant to chock and vibration,

- Connection with pluggable terminal block
(wire section up to 4 mm²).

- Embedded EMC filter according to EN55022 class A

(Specific output voltage or frequency available on request)

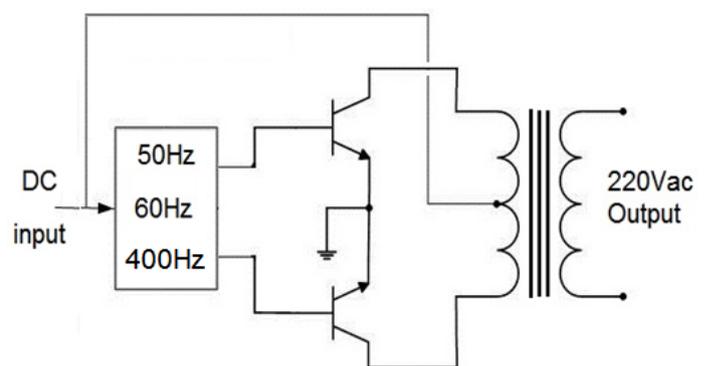
Implementation recommendations:

- primary protection with fuse recommended (5A delayed)

- maintain a spacing between devices for natural convection

- vertical mounting recommended

Internal synoptic



Version and order code:

[Request a quote](#)

WR125-DC-AC-P :

- Rating input DC : 12V, 24V, 48V, ...350V

- Rating output AC : 110Vac, 115Vac, 220Vac, 230Vac
(50-60 Hz 400Hz) to define. 50Hz by default

- Rating power : 20VA to 100VA

Power supply

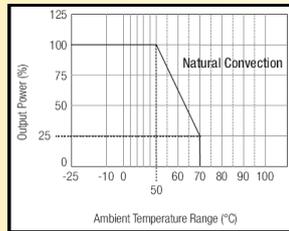
Input voltage +/- 10%: 12Vdc, 24Vdc, 48Vdc, ...350Vdc
 Typical efficiency > 85%
 Inrush current 3A typical

Output

Alternative voltage 115Vac or 230Vac quasi-sin
 Output accuracy +/- 5% for rating input
 Frequency 50Hz +/- 2Hz
 60Hz +/- 2Hz
 400He +/- 4Hz

Load regulation (output current variation) : +/-3%
 Line regulation (input variation) : without
 Thermal stability : +/-0.07% / °C
 Overload protection: 200% typical
 short circuit protection: by 5x20mm fuse

Output power function of ambient temperature



ENVIRONNEMENT

Operating temperature -25°C to 50°C (natural convection)
 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 1200g.
 MTBF > 500 000 hours @ 25°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	group 1 class A
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
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:

