Inverter, Direct to alternative converter 20VA to 100VA
110Vdc...125Vdc to 230Vac / 115Vac WR140-Dc-Ac

- ***DC input***
  12Vdc, 24Vdc, 48Vdc, 72Vdc
  110Vdc, 115Vdc, 125Vdc, 250Vdc
- ***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

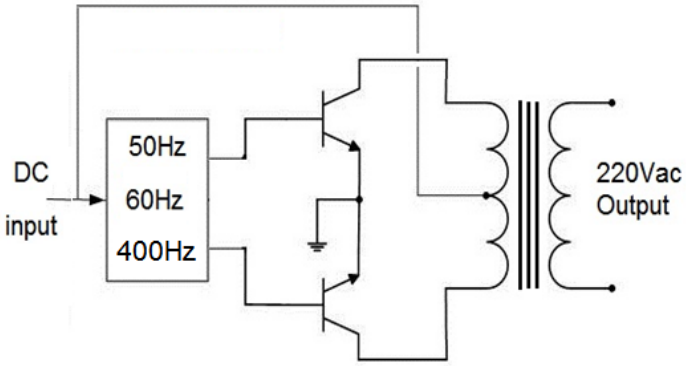
Features:
- DIN rail mounting or wall mounting,
- Protection rating IP20,
- Conformal coating for electronic protection,
- Non sensitive to dust and humidity,
- high resistant to chock and vibration,
- Connection with pluggable terminal block
  (wire section up to 4 mm²).
- Embedded EMC filter according 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, 110V, 115V, 125V, 250V
- 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, 72Vdc,
110Vdc, 115Vdc, 125Vdc, 250Vdc

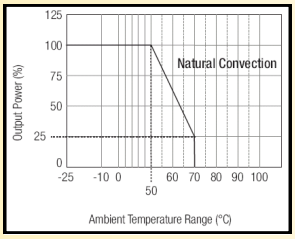
Typical efficiency > 85%
Inrush current 3A typical

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*	
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*	

CE

WIRING AND OUTLINE DIMENSIONS: