

- **Nominal DC input**

12Vdc, 24Vdc, 48Vdc

- **Sine wave output 50 Hz / 60 Hz +/- 0.2 Hz**

100 / 110 / 115 / 120 Vac

200 / 220 / 230 / 240 Vac

rated power up to 400VA

- **Rail DIN or surface mounting,**

Cooling by ventilation or natural convection

- **High efficiency** >86% typical, low no-load consumption

- **Input / Output isolation** 4000Vac



The WR200-DC-AC is a sine wave output inverter able to supply a local alternative voltage from battery or DC network. It incorporates input regulation ensuring a regulated and protected alternating output voltage.

Description:

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

- Wide range of DC input

Overload admissible 150% during 10sec

Short-circuit protected

Reverse polarity protected

Under voltage protected (lockout)

Thermal protected (limitation of output power)

force air cooling or natural convection

Low no-load consumption

Features:

DIN rail mounting or surface mounting,

Protection rating IP20,

Conformal coating for electronic protection,

Non sensitive to dust and humidity,

Resistant to shock and vibration,

Connection with pluggable terminal blocks (section up to 4 mm²).

Build-in EMC filter according to EN55022 class A

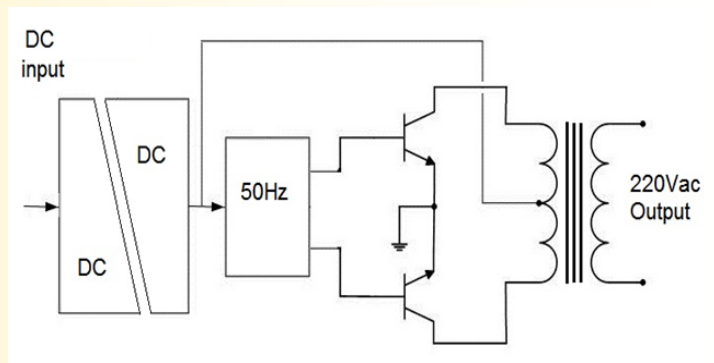
Implementation recommendations:

- primary protection with fuse recommended (20A delayed)

- maintain a spacing between devices for natural convection

- horizontal mounting recommended

Internal synoptic for WR200



Version and order code:

WR200-DC-AC-P :

- Rating DC input: 12V, 24V, 48V,...600Vdc
rated voltage +/- 15%

- Rating AC output: 230Vac, 50Hz by default
100 / 110 / 115 / 120 / 200 / 220 / 230 Vac 50Hz or 60Hz

- Rating power : 100VA / 200VA / 400VA

Option :-NV Natural convection cooling (fanless).

DC power supply

Rating input voltage:
12Vdc, 24Vdc, 48Vdc

other input on request in wide range

Typical efficiency > 86%
Inrush current 25A typical

AC output

Alternative voltage sine distortion < 3%
shape of output wave Sine wave
Output accuracy +/- 3% for rated input
Frequency 50Hz / 60Hz +/- 0.2Hz

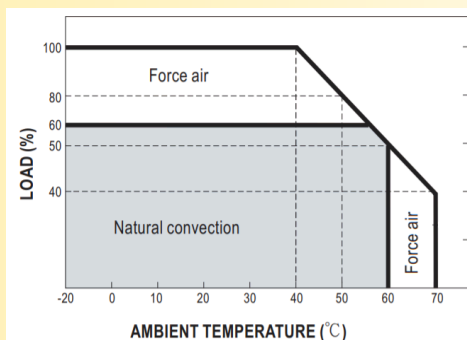
Load regulation (output current variation) : +/-3%

Line regulation (input variation) : +/-1%

Thermal stability : +/-0.07% / °C

Overload protection: 150% typical

*Output power function of ambient temperature.
In natural convection and in force air cooling*

**ENVIRONNEMENT**

Operating temperature	-25°C to 70°C
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	2000g
Protection rating	IP20
MTBF (MIL HDBK 217F)	> 400 000 hours @ 25°C
Life time	> 200 000 hours @ 30°C
Life time	> 50 000 hours @ 50°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 group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
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	

