Inverter, Direct to alternative converter output: 115/230Vac 50/60Hz 400VA maxi — *WR200-DC-AC*

- ***Nominal DC input***
  12Vdc, 24Vdc, 48Vdc, ...600Vdc
- ***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
  overload admissible 600VA
- ***Rail DIN or surface mounting,***
  Cooling by ventilation or natural convection
- ***High efficiency*** *>86% typical, low no-load consumption*
- ***Input / Output isolation*** *4000Vac*

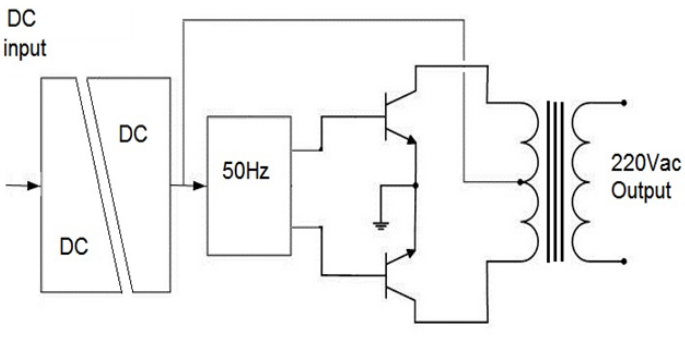
The WR200-DC-AC is a sine wave output inverter able to supply a local alternative voltage from battery or DC network. It incorporates input regulation ensuring a regulated and protected alternating output voltage.

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

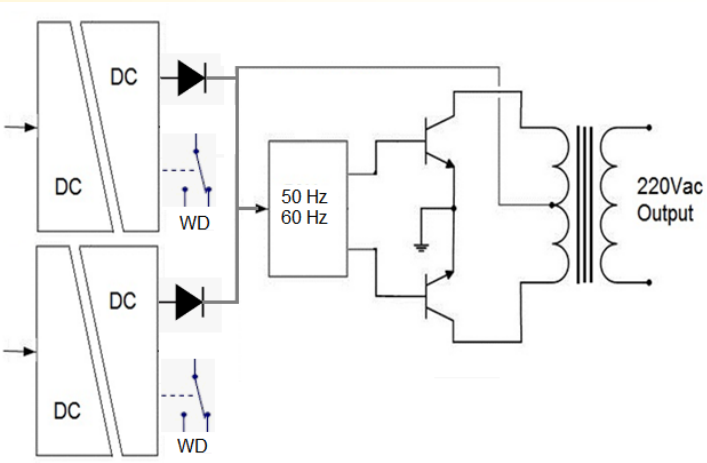
Features:
DIN rail mounting or surface mounting,
Protection rating IP20,
Conformal coating for electronic protection,
Non sensitive to dust and humidity,
Resistant to shock and vibration,
Connection with pluggable terminal blocks (section up to 4 mm²).
Build-in EMC filter according to EN55022 class A

Implementation recommendations:
- primary protection with fuse recommended (20A delayed)
- maintain a spacing between devices for natural convection
- horizontal mounting recommended

Internal synoptic for WR200



Internal synoptic for WR200-WD



Version and order code:

Request a quote

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

WR200R-WD: Redundant version. 2 DC inputs and 1 AC output with Watchdog relay on each DC input

Option :**-NV** Natural convection cooling (fanless).

DC power supply

Rating input voltage:
12Vdc, 24Vdc, 48Vdc, ...600Vdc

other input on request in wide range

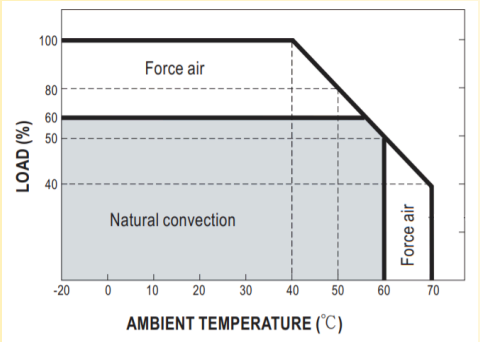
Typical efficiency	> 86%
Inrush current	25A typical

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

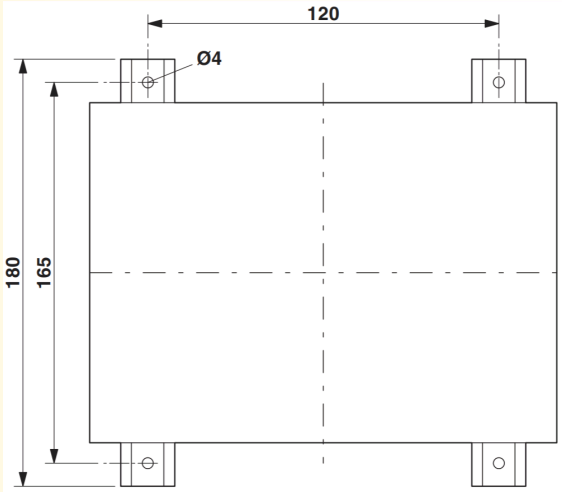


ENVIRONNEMENT

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*
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: