

- **Wide voltage range input**

17...34Vdc

34...67Vdc

- **Output : 12V, 24V, 48V, adjustable**

- **Power : 120W**

peak power 150% during 5 seconds

- **Fully protected**

- short circuits
- overload
- thermal

- **High efficiency up to 93%**

- **Input / output isolation**

- 2500V or 4000Vac



The WRDIN series is a range of DC-DC converters mounted in DIN rail. These high density switching modules are suitable for a stable and isolated power supply.

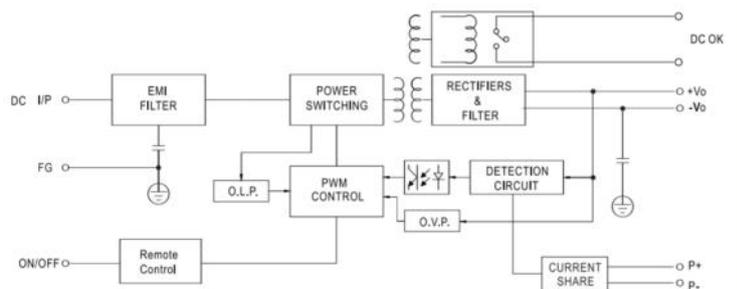
Description:

- DIN rail mounting
- 32mm width case for 120W
- Shield on 6 faces, Conformal coating in option
- Highly resistant to vibration and shocks
- Wiring on screw terminal: 2.5mm² / 4mm²
- Overload protected
- Continuous short circuit protected
- Thermal protection (output power limitation)
- Natural convection cooling
- Built-in EMI filter (EN55022 class A)
- Parallel coupling with current sharing is possible. (specific manufacturing on request)
- Input voltage : from 9Vdc to 1500Vdc wide range
- inrush current internally limited
- Output voltage : 12, 24, 48Vdc

Technical specifications:

- Output voltage accuracy: +/-1% typical
- Line voltage regulation (input variation) : +/-0.5%
- Load voltage regulation (output current variation) : +/-1%
- Noise and ripple : < 100mV pp (20MHz bandwidth)
- Temperature coefficient : +/- 0.02% / °C
- Operating temperature : -20 to +55°C
- Derating : 2.5% / °C above 55°C
- Output current limitation : 150% peak
- Current regulation above the nominal power
- Switching frequency : 800KHz typical

Internal synoptic :



Version and order code:

[Request a quote](#)

WRDIN120 in / out

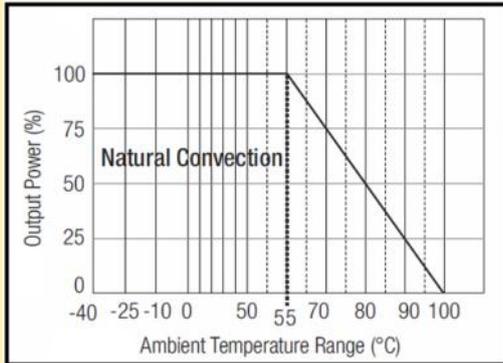
120 watts

in : rating input voltage
out : DC voltage output

ENVIRONMENT

Operating temperature: -20 to 55 °C (without derating)
 Storage temperature: -40 to 85 °C
 Humidity: 95 % (not condensed)
 Protection rating: IP20 (enclosure and connectors)
 Dielectric strength: 1500 Vrms continuous
 Insulation resistance: > 100 Mohms at 1000Vdc
 input/output capacity: 1200pf typical
 Safety standards: EN 60950-1
 Maxi efficiency: between 81 and 92%.
 Vibration: 10-55Hz, 1G, 30 minutes X,Y,Z.
 Weight: 0.25 to 1Kg depend of model
 MTBF (MIL-HDBK-217F): 400 000 hours @ 25°C

Output power function of temperature



To ensure the technical specifications, we recommend a spacing of at least

POWER SUPPLY (must be defined)

DC input voltage: 9...18Vdc; 17...34Vdc; 34...67Vdc; 67...155Vdc
 Wide range, with under voltage lockout and reverse polarity protection.
 Rating inrush current : 30A



OUTPUTS (Number and voltage to be defined)

Voltage output : 12 Vdc, 24 Vdc, 48Vdc, adjustable 15%
 Transient response : 1ms (typical)
 (25% output load change)

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 clips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC clips	



WIRING AND OUTLINE DIMENSIONS: WRDIN 120

