

# 240W DIN Rail Power Supply DRP024V240W1BA (Preliminary)



## Features:

- Ease of wire connection to terminals
- Compact design for easy handling
- Built-in active PFC function, PF>0.96@115Vac & >0.90@230Vac at full load
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 5 sec
- Expected lifetime: 10 years
- Redundancy: Yes (With DRR-20A Redundancy Module)
- Efficiency > 89% typ.
- Compliant with IP20
- 3 year warranty



## Specifications

### Input Specification

Input Voltage	85-264 VAC
Input Frequency	47-63 Hz
Max. Input Current	3.5A Max, (<2.5A @ 115Vac & <1.3A @ 230Vac).
Inrush Current	<35A@115Vac & 230Vac at 25°C
Efficiency (%)	Min 89% @ 115Vac & 230Vac
Leakage Current	< 1mA @ 240Vac

### Output Specification

Output Power	240W
Output Voltage	24Vdc
Voltage Tolerance	± 2.0%
Output Current	10A (240W Max)
Line regulation	< 0.5% Typical (at 85 to 264VAC input, 100% load)
Load regulation	< 1% Typical (with rated input, 0 to 100% load)
PARD	< 70mVpp. @ 25°C
Rise Time	< 100ms @ 100% load (25°C)
Start-up Time	< 1000ms @ 100% load (25°C) and Typical Line input.
Holdup Time	> 20ms @ 115Vac & 230Vac with 240W Load (25°C).

### Protection

Overvoltage Protection	< 32V, +/-10%, SELV output, Non-Latching (Autorecovery).
Overload Protection	> 150% of rated load current, Auto Recovery (Hicc-Up Mode).
Overcurrent Protection	> 150% of the rated current.

### Environmental

Operating Temperature	-20°C to +50°C, with operation to 80°C possible with a linear derating to half power from 50°C to 80°C.
Storage Temperature	-25°C to +85°C
Relative Humidity	< 95% RH noncondensing

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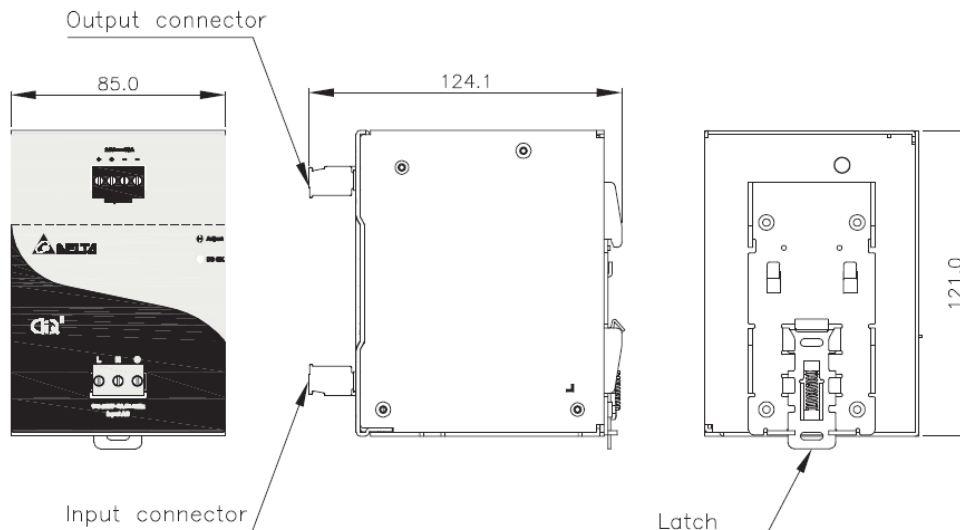
## Safety Approvals

EMC / Emissions Immunity	FCC Title 47, Class B / EN55022, CISPR22, Class B EN61000-4-4, 1995; EN61000-4-5, 1995; IEC61000-4-12 or IEEE C62.41; EN61000-4-3, 1998; EN61000-4-8; EN61000-4-6, 1996;
Approvals	UL/cUL Listed to UL508 and CSA C22.2 no. 107.1-01, UR/cUR recognize to UL60950-1 and CSA C22.2 No. 60950-1, BAUART (TUV or SIQ) CB test certificate and report to IEC60950-1, CCC prepared, CE (EMC and Low Voltage directive) and CSA to CSA C22.2 No.107.1-01 Ex II3G ATEX 94/9/EC, Hazardous location for ICE60079-0, IEC60079-15 (pending)
Voltage Dips	EN61000-4-11 Input to Output : 4 KVac
Galvanic Isolation	Input to Ground : 1.5 KVac Output to Ground : 1.5 KVac

## Mechanical

Case Cover	Aluminium (AL5052)
Dimensions (WxLxD)	85 x 121 x 124.1 mm.
Unit weight / box	1.10 kg
MTBF	> 500,000 Hrs.
Noise	Sound pressure Level (SPL) < 40 dBA
Cooling	Convection
Input Terminal / Output Terminal	Pluggable connector 3 pin (300V, 15A) Pluggable connector 4 pin (300V, 15A)
Input / Output Wire	AWG 16-14
Shock Test	IEC 60068-2-27
Vibration	IEC 68000-2-6

## Mechanical Specification



## Model Numbering

DR	P	024V	240W	1	BA
Product type	Power Supply	Output Voltage	Output Power	Single Phase	Delta Standard Product

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