

CliQ Din Rail Power Supply

24V 120W 1 Phase

DRP024V120W1AA



DRP024V120W1AA

120Watts

Total Power: 120Watts
Input Voltage: 85-264Vac
of Output: Single

Model number DRP024V120W1AA

Reference no. EOE12010002

OUTPUT (DC)

Output power 120W

Output voltage range 22 - 28V

Output current 5A

Residual ripple/peak switching (20MHz) < 50mV / < 240mVpp
(@ nominal values)

Mains buffering at nominal load (typ.) > 35ms @ 115Vac, > 70ms @ 230Vac

Line regulation < 0.5% typ. (@ 85 - 264Vac input, 100% load)

Load regulation < 1% typ. (with rated input, 0 - 100% load)

INPUT (AC)

Input voltage range 85 - 264Vac (DC input range 120 - 375Vdc)

Input frequency 47 - 63Hz

Nominal current 1.4A @ 115Vac, 0.8A @ 230Vac

Efficiency > 84% typ.

Power factor Conform to EN61000-3-2 STD

Inrush current limitation I²t (+25°C) typ. < 80A @ 115Vac

Leakage current < 1mA

MECHANICAL DESIGN

Case cover Aluminium (Al5052)

Dimensions (L x W x H) 121mm x 50mm x 118.2mm

Unit weight / box 0.540kg

MTBF > 800,000 hrs

Noise Sound pressure level (SPL) < 40dBA

Cooling Convection

Input terminal M4 x 3

Output terminal M4 x 2 (2 pcs.)

Mounting rail Standard TS35 mounting rail

Shock proof IEC60068-2-27

Vibration IEC60068-2-6

Protection structure EN60950 meet IPX0

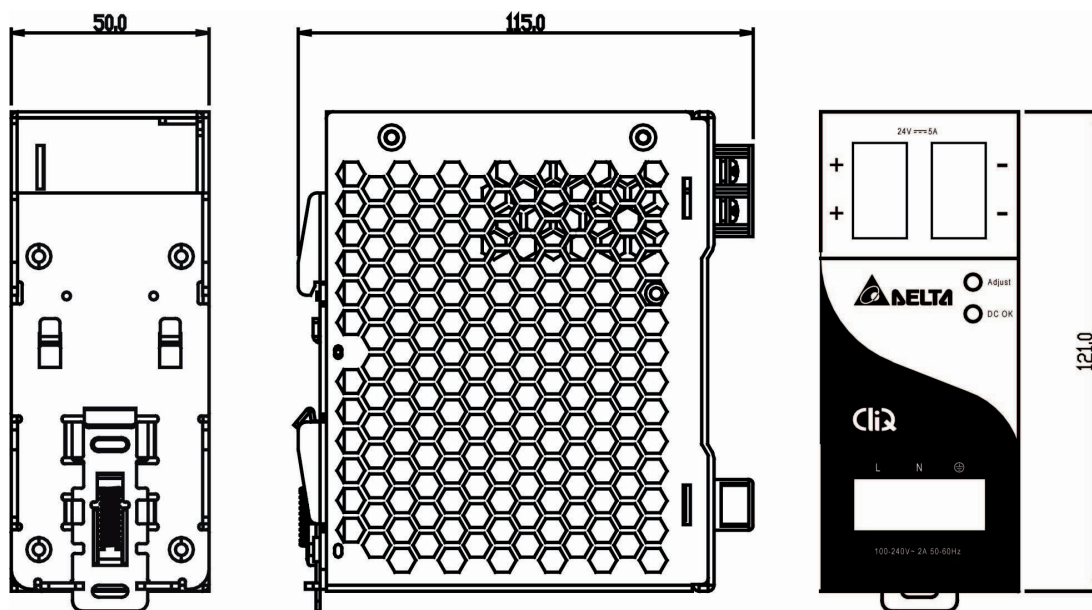
Special Features

- Ease of wire connection to terminals
- Compact design for easy handling
- Overload protection
- Overvoltage protection
- Thermal protection
- Power boost 150% for 3 seconds
- Expected life time : 10 years
- Shock proof IEC60068-2-27
- Vibration IEC60068-2-6
- Cooling : Convection
- Operating Humidity : < 95%
- Redundancy : Yes (with external ORing diode)
- RoHS compliant



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MECHANICAL DRAWING



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SAFETY / ENVIRONMENTAL

EMC / Emissions

Class B / EN55022, CISPR22, Class B;
FCC Tilte 47; EN61204-3 (Class B on AC &
Class A on DC side), EN55022:2006 Class
B, EN61000-3-2:2006, EN61000-3-3:1995/
A1:2001/A2:2005

Immunity

EN55024:1998/A1:2001/A2:2003

Safety standard

UL508, CSA C22.2 No.107.1-01,UL60950-1,
CSA C22.2 No.60950-1, IEC60950-1,
EN60950-1, EN50178, IEC62103 and
IEC60204-1

Voltage dips

Conform to EN61000-4-11

Galvanic isolation

Input to output: 4KVac
Input to ground: 1.5KVac
Output to ground: 1.5KVac

Operating ambient temperature

-20°C ~ 75°C *

Storage temperature

-25°C ~ 85°C

Operating humidity

< 95%

Note (*)

* Operating amb. > 50°C derate power by
2.5% / °C