

### Features

- Universal AC input voltage without power de-rating
- High efficiency > 93% @ 230VAC
- Power Boost of 150% for 5 seconds
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBA to protect against chemical and dust pollutants



### Specifications

#### INPUT

Voltage Range	85–264VAC 120–375VDC
Current	< 5.00A@115VAC, < 3.00A @ 230VAC
Frequency	47–63Hz
Efficiency <sup>1</sup> at 100% load	> 91.0% @ 115VAC > 93.0% @ 230VAC
Power Factor	> 0.96 @ 115VAC, > 0.90 @ 230VAC
Max. Inrush current	< 35A @ 115VAC & 230VAC
Leakage current	< 1mA @ 240VAC

#### OUTPUT

Voltage	48V
Output Voltage Range	48–56V
Current	10.0A
Power	480W
Line regulation	< 0.5% typ. (@ 85-264VAC, 100% load)
Load regulation	< 1% typ. (@ 85-264VAC, 0–100% load)
PARD (20MHz)	< 200mVpp
Hold-up Time	> 20ms @ 115VAC & 230VAC

#### MECHANICAL

Dimensions (LxWxH)	121 x 144 x 118.6mm
Case Cover	Aluminium
Weight	1.37kg
Cooling System	Convection
Input Terminal	3 Pins (Rated 300V/30A)
Output Terminal	4 Pins (Rated 300V/30A)
Input/Output Wire	I/P: AWG 18-10 O/P: AWG 16-10
MTBF <sup>2</sup>	> 500,000 hrs

#### NOTES:

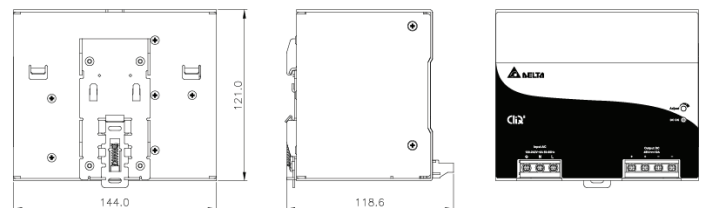
- 1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
- 2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115VAC, O/P: 100% load) at Vertical Mounting Orientation
- 3) All parameters are specified at 25°C ambient unless otherwise noted

#### ENVIRONMENTAL

Operating Temp	-25°C to +80°C
Power De-rating	> 50°C de-rate power by 2.5% / °C > 70°C de-rate power by 5% / °C
Humidity	< 95%RH (Non condensing)
Altitude	0–2,500m

#### STANDARDS & APPROVALS

Electronic Equipment in Power Installations	EN50718 / IEC62103
Electrical Safety	SIQ to EN60950-1, UL/cUL recognized to UL60950-1, CSA C22.2 No. 60950-1, CB scheme to IEC60950-1
Industrial Control Equipment	UL/cUL listed to UL508 and CSA C22.2 No. 107.1-01, CSA to CSA C22.2 No. 107.1-01 (File No. 181564)
Ex II 3G ATEX 97/9/EC IECEx	(For DRP048V480W1BA) Certificate No. EPS 12 ATEX 1 491 X
Hazardous Location / ATEX (For DRP048V480W1BA)	cCSAus to CSA C22.2 No. 213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A, B, C, D T4, Ta= -25°C to +80°C (Vertical > +50°C derating)], EN 60079-0:2009, EN 60079-15:2010 [Ex II 3G Ex nA nC IIC T4 Gc, Ta= -25°C to +80°C (Vertical > +50°C derating)]
CE	In conformance with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC For DRP048V480W1BA: In conformance with Equipment for explosive atmospheres (ATEX) directive 94/9/EC
Materials & Parts	RoHS Directive 2011/65/EU Compliant
Galvanic Isolation	Input to Output: 4.0KVAC Input to Ground: 1.5KVAC Output to Ground: 1.5KVAC



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14PB062 Delta DRP-48V480W1BN Spec Sheet