

One-phase switching power supply
regulated, 480 W



Identification	Type	CPSB1-480-24R
	Part-No.	722986

Input	
Nominal voltage	AC 120 V / AC 240 V
Operation voltage range	AC 90–132 V / AC 187–264 V
Line frequency	47 Hz – 63 Hz
Rated current	$U_i = AC 120 V: 6 A / U_i = AC 230 V: 3.5 A$
Inrush current	<13 A
External fuse	Automatic: C 16 A (required)
Power Factor Correction P.F.C.	>0.6

Load Side	
Rated voltage output	DC 24 V
Rated current output	20 A
Max. output current	30 A, 5 s, @ 24 V
Short-circuit current	>55 A, 5 s
Low power loss	45 W (AC 230 V)
Voltage trim range	23/28 V
Load regulation	<1 %
Ripple & Noise	100 mV pp
Hold up time	>35 ms (AC 240 V)
Status indication DC ON LED green	$\geq 21.6 V$

08.11.2013 – Subject to technical modification

Part-No. 722986

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Status indication DC LOW LED red	≤21.6 V
Parallel/redundant operation	max. 2 devices / via internal diodes
Efficiency	>92 % (AC 240 V)
Rated over load protection	yes
Over voltage protection	yes
Short circuit characteristics	Hiccup-mode

General

Switching frequency	approx. 70 – 110 kHz
Insulation voltage input/output	3.0 kV _{eff}
Insulation voltage input / ground	AC 2.0 kV _{eff}
Insulation voltage output / ground	AC 0.7 kV _{eff}
Operation temperature range	-20 °C – 60 °C (derating)
Derating	>50 °C: -10 W / °C
Storage temperature range	-25 °C – 85 °C
M.T.B.F.	750000 h to SN29500 / 250000 h to MIL Standard HDBK 217F
Relative humidity	20–90% RH, non-condensing
Dimensions (w × h × d)	81.0 × 127.0 × 146.0 mm
Cooling	Natural air cooling, 10 mm distance right/left, 50 mm distance above/below
Installation position	vertical
Housing material	Aluminium
Protection class	IP 20 (IEC529, EN60529)
Field installation	rail TS 35 (EN 50022)
IP rating	I (SELV, PELV)
Overvoltage category	II
Pollution degree	2
Weight (kg/piece)	1.100
Termination	Screw terminal: 0.2–6.0 mm ² , max. 0.62 Nm
Approvals	UL, cUL: UL 508, IEC 950, EN 60950 CE: EN 61000-4-2/3/4/5/6/11, EN 61000-6-2, EN 61000-6-4, EN 50178, EN 61558, EN 50081-1, EN 50082-2, EN 55022 Class B

Monitoring

DC ON Control (Rdy)	Normally open
Switching voltage	AC 300 V / DC 150 V
Switching current	AC/DC 1 A
Switching capacity	300 VA / 30 W
Insulation voltage	AC 500 V

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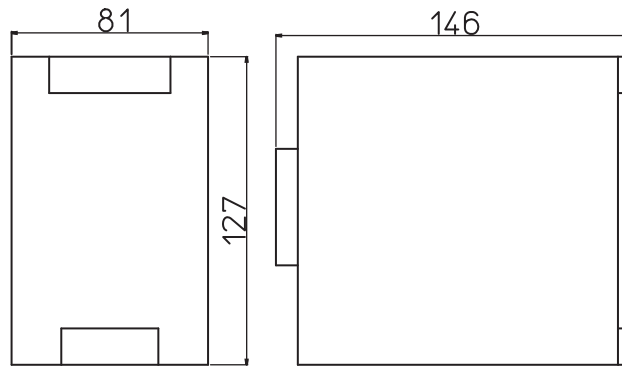
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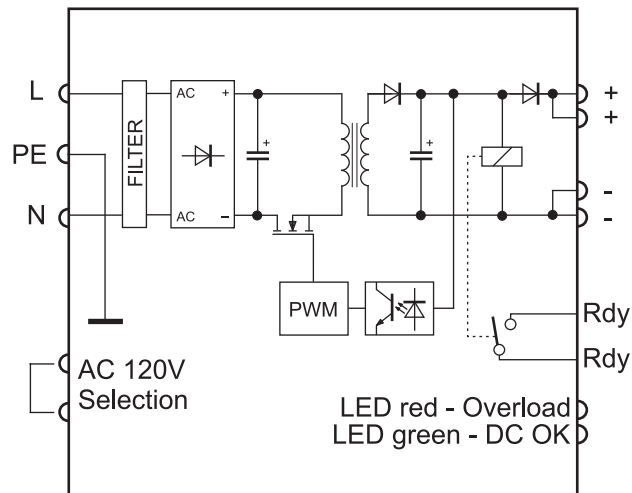
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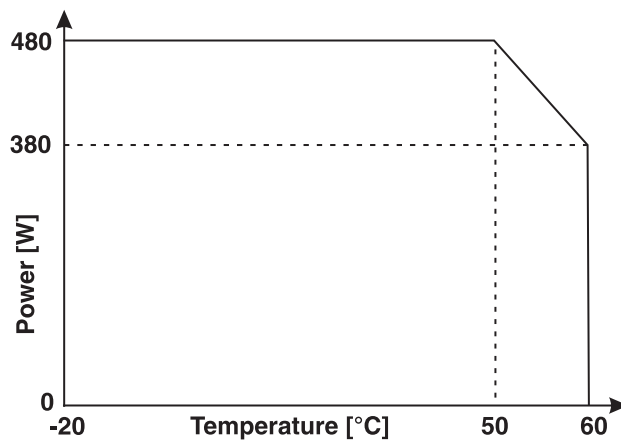
Dimensions



PIN assignment



Derating



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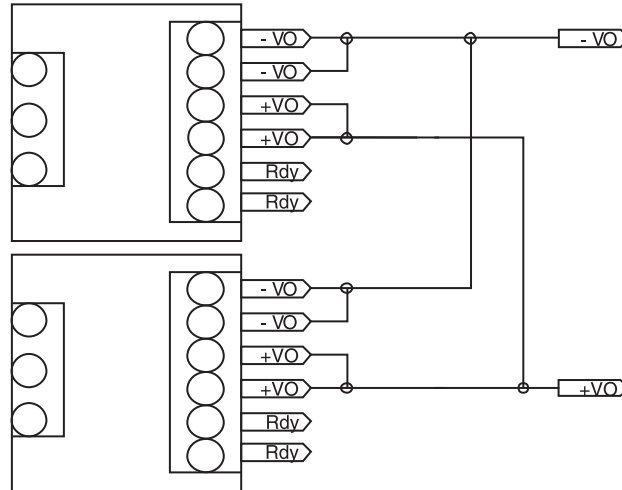
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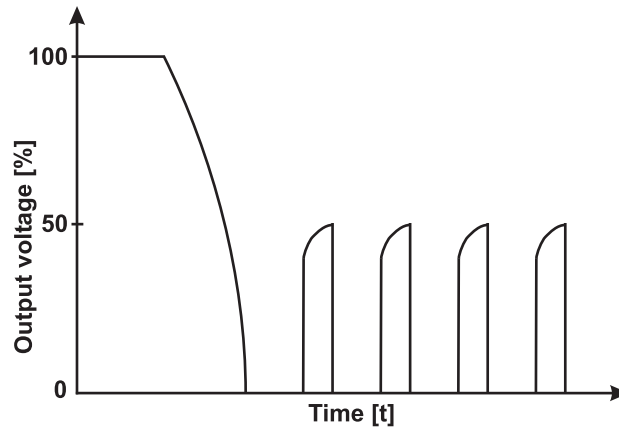


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Parallel/redundant mode



Short circuit characteristics



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