

Technical data sheet

Power supply · regulated, 80 W

Primary switchmode power supply, PFC, Single-phase, Class 2

Input: wide-range input AC 90–264 V, DC 100–345 V

Output: DC 24 V, adjustable



Identification

Type CPSF-1-80-24
Part No. [722789](#)

Product version

Datasheet version 01

Input

Number of phases 1
Rated voltage U_N AC 115/230 V
Operation voltage range AC 90–264 V / DC 100–345 V (DC 300 V, UL508)
Frequency range 47 Hz – 63 Hz
Rated current I_N 1.4 A @ AC 100 V / 0.85 A @ AC 240 V
Inrush current <30 A
Internal fuse 2 A Typ-T AC 250 V
External protection Mini-circuit breaker: C 4 A
Power factor correction P.F.C. >0.6

Output

Output voltage/current DC 24 V/3 A
Rated voltage U_N 24 V
Rated current I_N 3.3 A
Max. output current 4 A @ 24 V
Short-circuit current 20 A
Setting range $U_{out \min.}/U_{out \max.}$ 23.5–27.5 V
Load regulation <1 %

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Ripple and noise	<50 mV pp
Hold up time	>10 ms @ AC 120 V / >30 ms @ AC 240 V
Parallel / redundant mode	Max. 2 devices / via external decoupling diodes e.g. 722987
Efficiency	>87 % @ AC 120 V / >89 % @ AC 240 V
Over voltage protection	Yes
Rated over load protection	Yes
Short circuit	Hiccup Mode

Status indication

Status indication DC ON LED green	Yes
Status indication DC LOW LED red	No

General

Switching frequency	Approx. 70 kHz
Insulation voltage input / output	AC 3.0 kV _{eff}
Insulation voltage input / ground	class 2, without PE
Insulation voltage output / ground	class 2, without PE
Derating	>55 °C: -0.9 W/°C
Cooling	Air convection, 20 mm distance top/bottom, 10 mm side
Housing material	Noryl (UL 94 V-0)
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	Vertical
MTBF	750000 h: SN29500 / 250000 h: MIL-HDBK-217F
Degree of protection	IP20 (IEC 529 / EN 60529)
Protection class	II (SELV, PELV)
Weight/unit	0.23 kg
Connection type	Screw terminal 0,20 mm ² – 2,5 mm ² max. 0.56 Nm
Dimensions (w × h × d)	72.0 mm × 90.0 mm × 61.5 mm
PU (units)	1

General ambient conditions

Operation temperature range	-40 °C ... +70 °C (UL approved up to +55 °C)
Storage temperature range	-40 °C ... +80 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	20 – 90 % RH, not condensing

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Certifications/Standards

Certifications

File Number: E249179

UL 508

UL 61010-1

UL 61010-2-201

IEC 61010-1

IEC 61010-2-201

EN 61010-1

EN 61010-2-201

CSA 61010-1

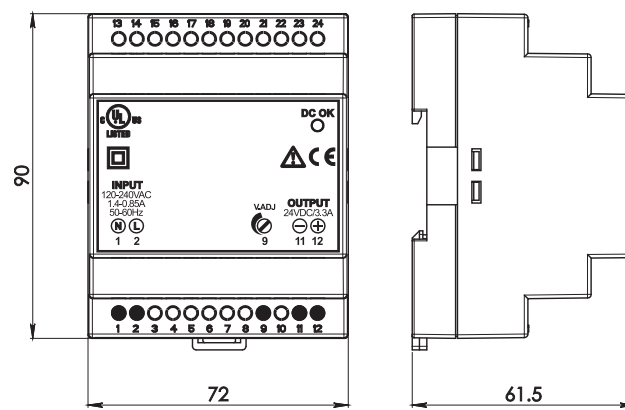
CSA 61010-2-201

UKCA

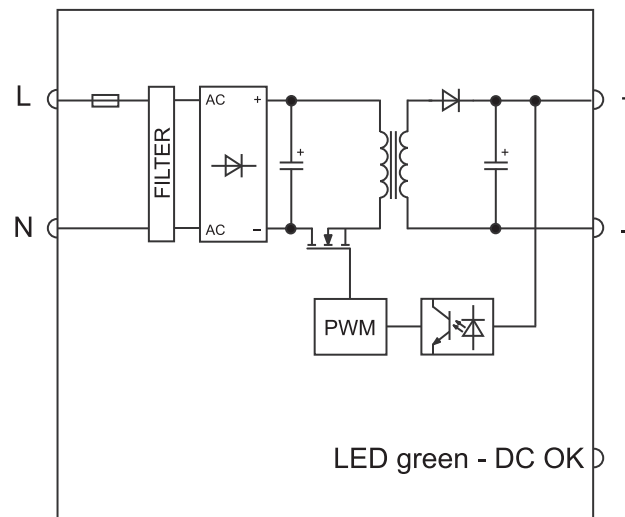
Standards

UKCA

Dimensions



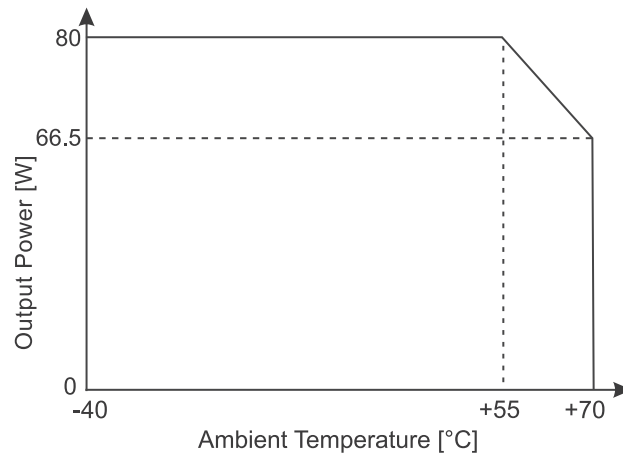
PIN assignment



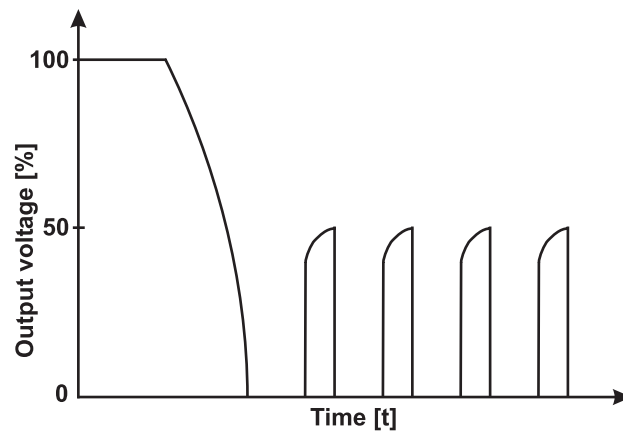
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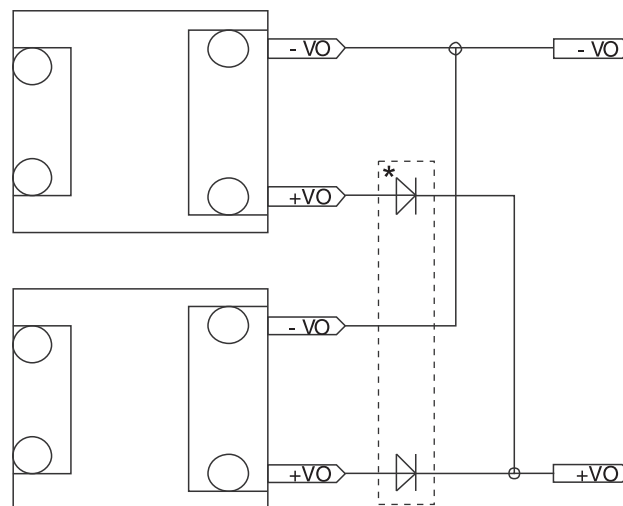
Derating



Short circuit characteristics



Parallel/redundant mode



* Redundant Module