



1-/2-phase switching power supply
regulated, 120 W

Identification	Type	CPSB2-120-24
	Part-No.	722995
Input		
Nominal voltage	AC 200–500 V	
Operation voltage range	AC 187–550 V / DC 270–725 V	
Line frequency	47 Hz – 63 Hz	
Rated current	U _i = AC 200 V: 1.1 A / U _i = AC 500 V: 0.5 A	
Inrush current	<20 A (AC 230 V), <30 A (AC 500 V)	
External fuse	Automatic: D 4 A, C 6 A / safety fuse: T 4 A (required)	
Power Factor Correction P.F.C.	>0.55	
Load Side		
Rated voltage output	DC 24 V	
Rated current output	5 A @ 45 °C	
Max. output current	>7.5 A, 5 s	
Short-circuit current	38 A, 5 s	
Low power loss	16.5 W –18 W	
Voltage trim range	23-27,5 V	
Load regulation	<1 %	
Rise time	9 ms (5–95 %) @ 400 V	
Ripple & Noise	<100 mV pp	
Hold up time	>20 ms (AC 120 V), >80 ms (AC 230 V)	

08.11.2013 – Subject to technical modification

Part-No. 722995

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Technical data sheet • Power supply

Status indication DC ON LED green	≥ 21.6 V
Status indication DC LOW LED red	$I_{out} > 110 \% I_N$
Parallel/redundant operation	yes/with external decoupling diode
Efficiency	87 % – 88 %
Rated over load protection	yes
Short circuit characteristics	Hiccup-mode

General

Insulation voltage input/output	3.0 kV _{eff}
Insulation voltage input / ground	AC 2.0 kV _{eff}
Insulation voltage output / ground	AC 0.5 kV _{eff}
Operation temperature range	-20 °C – 60 °C (overtemperature protection)
Derating	>50 °C: -4 W/°C
Storage temperature range	-25 °C – 85 °C
M.T.B.F.	>500000 h to SN29500 / >150000 h to MIL standard HDBK 217F
Relative humidity	20–90% RH, non-condensing
Dimensions (w × h × d)	40.0 × 130.0 × 115.0 mm
Cooling	Air convection
Installation position	vertical
Housing material	Aluminium
Protection class	IP 20 (IEC529, EN60529)
Field installation	rail TS 35 (EN 50022)
Application height	2000 m
IP rating	I (SELV, PELV)
Overvoltage category	II (IEC 664-1)
Pollution degree	2
Weight (kg/piece)	0.400
Termination	Screw terminal: 0.2–2.5 mm ² (AWG 24–12) - pluggable
Approvals	UL, cUL: UL 508, IEC 60950 CE: EN 60950, EN 61000-6-2 (2005), EN 60100-6-4 (2007), EN 61000-4-2/3/4/5/6/11, EN 61000-5-5

Monitoring

DC ON Control (Rdy)	yes
Switching voltage	AC/DC 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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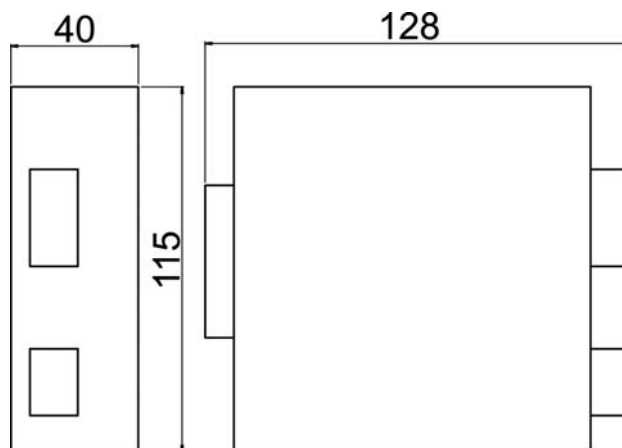
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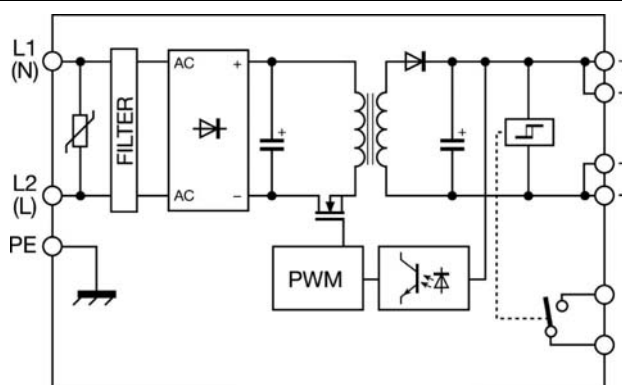


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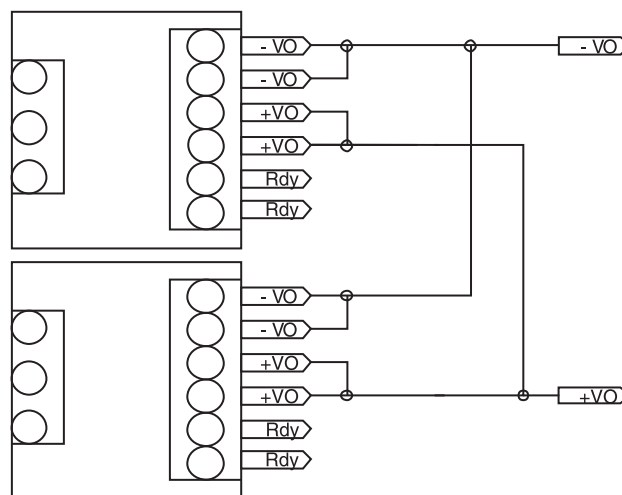
Dimensions



PIN assignment



Parallel mode



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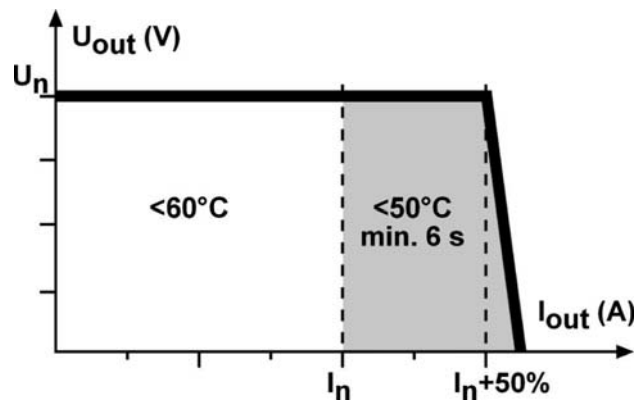
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Output characteristics



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