

## PSPC

### DC Power Supplies



**CONTA-CLIP's new generation of PSPC DC power supplies are a perfect supply solution for controller systems.**

**PSPC DC power supplies** combine the basic functionality of an economic switch-mode power supply with the important additional features that ensure high system availability. They are lightweight and compact, yet still versatile and strong in the field. These multi-purpose power supplies can be used in various solar, measurement/control, industrial automation, and building automation applications.

They cover the needs of mid-level power consumption ranging from 120 W to 240 W. Many uses are possible: variants are available with 5 A and 10 A of output current and an output voltage of 24 V. The output voltage can be easily adjusted using the potentiometer dial located on the front side of the housing.

The primary switch-mode regulators in use ensure that there are reliable connections everywhere to the public power grids. Installation is quick and safe with their DIN rail mounting and the push-in terminal connections.

#### Features

- **Primary switch-mode power supply**
- **Easy to mount on a TS35 DIN rail**
- **Wide-range input**
- **Adjustable output voltage**
- **No-load and short-circuit safe**
- **Thermal overload protection**
- **Ambient temperature: -25 to +70°C**
- **IP 20 protection**



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**Our ideas – your advantages**

# PSPC DC Power Supplies

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- Easy to mount on TS35 DIN rail
- Wide-range input
- Adjustable output voltage
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- Thermal overload protection
- Ambient temperature: -25 to 70°C
- IP 20 protection

Standards: EN 61558-2-17, EN 60950 (safety); EN 61204-3 (EMC)

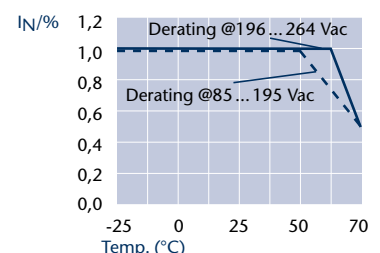
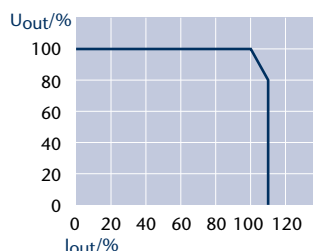
## PSPC 230/24-5A



## PSPC 230/24-10A



Type Cat. no.	PSPC 230/24-5A 16183.2	Qty. 1	PSPC 230/24-10A 16184.2	Qty. 1
Size (L x W x H) with TS35 x 7.5 mm	42 x 127 x 126		55 x 127 x 161	
Weight	590		930	
Classification	Primary switch-mode power supply		Primary switch-mode power supply	
Mount on DIN rail	TS35 acc. to EN 60715		TS35 acc. to EN 60715	
Connection type	Push-In connection		Push-In connection	
Wire connection cross-section	max. 2,5 mm <sup>2</sup>		max. 2,5 mm <sup>2</sup>	
<b>Input data</b>				
Nominal input voltage	100 - 240 Vac		100 - 240 Vac	
Input voltage range	85 - 264 Vac (120 - 372 Vdc)*		85 - 264 Vac (120 - 372 Vdc)*	
Input voltage derating	-2,5 %/Vac < 97 Vac		-2,5 %/Vac < 100 Vac	
Frequency range	47 Hz - 63 Hz / 0 Hz		47 Hz - 63 Hz / 0 Hz	
Nominal input current (nominal load)	2,25 A (100 Vac) / 1,2 A (230 Vac)		2,74 A (100 Vac) / 1,25 A (230 Vac)	
Inrush current limitation	< 30 A, NTC		< 30 A, NTC	
Turn-on time after applying the main voltage	0,25 s (100 Vac) / 0,2 s (230 Vac)		1,3 (100Vac) / 0,25 s (230Vac)	
Mains buffering (full load)	10 / 80 ms (100 / 230 Vac)		15 / 17 ms (100 / 230 Vac)	
Recommended power circuit breaker (characteristic)	6 A, 10 A, 16 A (B,C)		10 A, 16 A (B,C)	
Transient surge voltage protection	varistor	√	√	
Terminals input	Push-In, max 2,5 mm <sup>2</sup>		Push-In, max 2,5 mm <sup>2</sup>	
<b>Output data</b>				
Nominal output voltage	24 Vdc ± 1%		24 Vdc ± 1%	
Output voltage range	23 ... 28,5 Vdc		23 ... 28,5 Vdc	
Nominal output current	5 A		10 A	
Output current limitation	constant current	typ. 5,5 A	typ. 11-13 A	
Parallel operation	√		√	
Serial operation	√		√	
Power losses (Stand-by / nominal load)	1,2 W / 14,6 W (230 Vac)		6,6 W / 24,4 W (230 Vac)	
Maximum power losses	19,4 W (100 Vac / 24 V / 5 A)		31,3 W (100 Vac / 24 V / 10 A)	
Efficiency	typ. 89 %		typ. 91 %	
Ripple/noise	typ. 30 mVss		typ. 50 mVss	
Resistance to reverse feed max. (nominal load)	max. 35 Vdc		max. 35 Vdc	
Protection against internal surge voltage (OVP)	max. 41 Vdc		max. 40 Vdc	
Terminals output	Push-In, max 2,5 mm <sup>2</sup>		Push-In, max 2,5 mm <sup>2</sup>	
<b>Signaling</b>				
Signaling "DC OK"	LED green lit permanently	Uout > 21,5 V	LED green lit permanently	Uout > 21,5 V
Signal contact "DC OK"	Relay, contact closed	Uout > 21,5 V max. 30 V / 1 A	Relay, contact closed	Uout > 21,5 V max. 30 V / 1 A
Terminals signaling		Push-In, max 2,5 mm <sup>2</sup>		Push-In, max 2,5 mm <sup>2</sup>
<b>Environment</b>				
Storage temperature	-25° C ... +85° C		-25° C ... +85° C	
Operational temperature	-25° C ... +70° C		-25° C ... +70° C	
Derating	-5 %/K > +60° C (196 ... 264 Vac) -2,5 %/K > +50° C (85 ... 195 Vac)		-5 %/K > +60° C (196 ... 264 Vac) -2,5 %/K > +50° C (85 ... 195 Vac)	
Convection cooling	√		√	
Humidity	no condensation		no condensation	
Required minimum spacing (left / right)	30 ... 85%		30 ... 85%	
Required minimum spacing (over / under)	50 mm		50 mm	
<b>General data</b>				
Degree of protection acc. to IEC 60529	IP 20		IP 20	
Protection class acc. to EN 61140	I		I	
<b>Safety standards</b>				
Safety	EN 61558-2-16, EN 60950-1		EN 61558-2-16, EN 60950-1	
EMC	EN 61204-3		EN 61204-3	
Safety extra-low voltage (SELV/PELV)	IEC 60364-4-41 (DIN VDE 0100-410)		IEC 60364-4-41 (DIN VDE 0100-410)	
CE acc. to 2004/108/EC and 2006/95/EC	√		√	
<b>Output characteristic</b>				



\* A suitable DC back-up fuse is required for the DC input voltage.