CONTACLIP

PSPM

DC Power Supplies

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

PSPM DC power supplies are efficient switch-mode power supplies that are encased in slim plastic housings. 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 low- and mid-level power consumption ranging from 25 W to 50 W. Many uses are possible: variants are available with 1 A and 2 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. The DIN rail mount and the tension-spring terminals ensure that they can be mounted quickly and safely.

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**

www.conta-clip.com

CONTA-CLIP Verbindungstechnik GmbH
Otto-Hahn-Str. 7 · D-33161 Hövelhof, Germany
Phone +49(0)5257.9833-0 · Fax +49(0)5257.9833-33

Our ideas – your advantages

PSPM DC Power Supplies

- Primary switch-mode power supply
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- Wide-range input
- Adjustable output voltage
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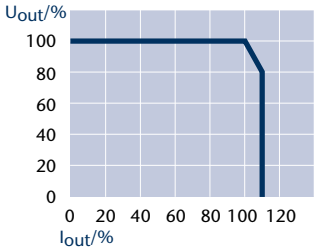
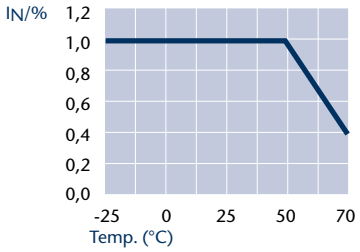
Type Cat. no.	PSPM 230/24-1A 16180.2 Qty. 1	PSPM 230/24-2A 16181.2 Qty. 1
Size (L x W x H) with TS35 x 7.5 mm	22,5 x 90 x 97,5	45 x 90 x 97,5
Weight	130	210
Classification	Primary switch-mode power supply	Primary switch-mode power supply
Mount on DIN rail	TS35 acc. to EN 60715	TS35 acc. to EN 60715
Connection type	Push-In connection	Push-In connection
Wire connection cross-section	max. 2,5 mm²	max. 2,5 mm²
Input data		
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 < 95 Vac	-2,5 %/Vac < 95 Vac
Frequency range	47 Hz - 63 Hz / 0 Hz	47 Hz - 63 Hz / 0 Hz
Nominal input current (nominal load)	0,43 A (100 Vac) / 0,2 A (240 Vac)	0,73 A (100 Vac) / 0,37 A (240 Vac)
Inrush current limitation	< 30 A, NTC	< 30 A, NTC
Turn-on time after applying the main voltage	2,3 s (100 Vac) / 0,74 s (230 Vac)	0,5 s (100Vac) / 0,27 s (230Vac)
Mains buffering (full load)	20 / 120 ms (100 / 230 Vac)	20 / 120 ms (100 / 230 Vac)
Recommended power circuit breaker (characteristic)	6 A, 10 A, 16 A (B,C)	6 A, 10 A, 16 A (B,C)
Transient surge voltage protection varistor	√	√
Terminals input	Push-In, max 2,5 mm²	Push-In, max 2,5 mm²
Output data		
Nominal output voltage	24 Vdc ± 1%	24 Vdc ± 1%
Output voltage range	23 ... 28,5 Vdc	23 ... 28,5 Vdc
Nominal output current	1 A	2 A
Output current limitation constant current	typ. 1,1 A	typ. 2,2 A
Parallel operation	√	√
Serial operation	√	√
Power losses (Stand-by / nominal load)	< 1W / 4 W (230 Vac)	< 1W / 6 W (230 Vac)
Maximum power losses	5 W (100 Vac / 24 V / 1 A)	7 W (100 Vac / 24 V / 2 A)
Efficiency	typ. 86 %	typ. 89 %
Ripple/noise	typ. 20 mVss	typ. 20 mVss
Resistance to reverse feed max. (nominal load)	max. 35 Vdc	max. 35 Vdc
Protection against internal surge voltage (OVP)	max. 39 Vdc	max. 37 Vdc
Terminals output	Push-In, max 2,5 mm²	Push-In, max 2,5 mm²
Signaling		
Signaling "DC OK" LED green lit permanently	Uout > 21,5 V	Uout > 21,5 V
Signal contact "DC OK" Relay, contact closed	Uout > 21,5 V max. 20 mA @ 24Vdc	Uout > 21,5 V max. 20 mA @ 24Vdc
Terminals signaling	Push-In, max 2,5 mm²	Push-In, max 2,5 mm²
Environment		
Storage temperature	-25° C ... +85° C	-25° C ... +85° C
Operational temperature	-25° C ... +70° C	-25° C ... +70° C
Derating	-3 %/K > +50° C	-3 %/K > +50° C
Convection cooling	√	√
Humidity no condensation	max. 0,7 A	max. 1,3 A
Required minimum spacing (left / right)	---	---
Required minimum spacing (over / under)	50 mm	50 mm
General data		
Degree of protection acc. to IEC 60529	IP 20	IP 20
Protection class acc. to EN 61140	II	II
Safety standards		
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	√	√
Output characteristic		





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