

The economical approach to controlled power supply – SITOP PSA 100E



The advantages at a glance

- Regulated 24 V
- High reliability
- Long product life (MTBF > 1,000,000 hours)
- Compact and narrow design
- Rugged metal enclosure
- Installation options using DIN rail or screw fitting (can be attached with screws on three sides)
- Simple connection by means of removable terminals
- High efficiency of up to 90% and correspondingly low heat dissipation
- Wide temperature range from -10°C to +70°C
- Extensive-protection-functions against overloading
- Green LED for "24 V OK"
- Output voltage adjustable from 23 V to 26 V to compensate for voltage drops
- Can be connected in parallel for higher performance
- Complies with European EMC and LV guidelines
- UL 508 approval, CB scheme

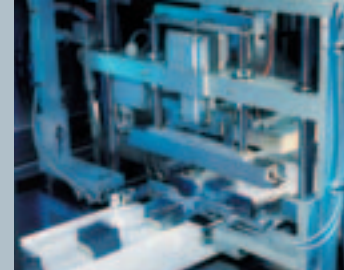
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sitop

PSA 100E

The new SITOP® series with an output current of between 2.5 A to 12 A offers the advantages of the regulated 24 V power supply at a very reasonable price. The devices are extremely reliable, durable and rugged, making them ideal for basic requirements in an industrial environment and they have the necessary approvals for use in many countries and industrial sectors. The high efficiency of SITOP PSA 100E resulting low heat dissipation permits the operation of the fanless devices at ambient temperatures up to +70°C. The compact metal enclosure offers flexible mounting options – on a DIN rail or directly to the wall. Removable terminals ensure a simple electrical connection.

SIEMENS



Technical data for the SITOP PSA 100E power supplies

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SITOP PSA	24 V/2.5 A	24 V/4 A	24 V/6 A	24 V/12 A
Order number	6EP1232-1AA00	6EP1232-1AA10	6EP1233-1AA00	6EP1234-1AA00
Rated input voltage	230 V AC			
– Range	187 ... 264 V AC			
Mains buffering	> 10 ms			
Rated line frequency	50/60 Hz			
– Range	47 ... 63 Hz			
Rated input current	0.65 A	1.1 A	1.4 A	2.5 A
– Starting current (25 °C)	< 50 A, < 5 ms			
– recommended MCB in the mains power input (IEC 898)	from 6 A characteristic C	from 6 A characteristic C	from 10 A characteristic C	10 A characteristic C
Rated output voltage	DC 24 V			
– Tolerance	+/- 3%			
– Setting range	23 to 26 V			
– Residual ripple/spikes:	< 250 mVpp			
Rated output power (45 °C, at 24 V)	60 W	96 W	144 W	288 W
Rated output current (45 °C, at 24 V)	2.5 A	4 A	6 A	12 A
Rated output current (60 °C, at 24 V)	1.75 A	2.8 A	4.2 A	8.4 A
Can be switched in parallel for higher performance	yes			
Electronic short-circuit protection	yes, 105 to 140% of rated output current, automatic restart			
Status indicator	green LED for "24 V OK"			
Efficiency at rated values approx.	84%	87%	87%	90%
Safety				
– Degree of protection to EN 60529	IP20			
– Protection class	Class I			
– Galvanic isolation primary/secondary	yes, output voltage SELV to EN 60950 and EN 50178, transformer to EN 61558-2-17			
– CB scheme	EN 60950-1			
EMC				
– Emitted interference	EN 61000-6-4			
– Degree of noise to EN 55022	Class B			
– Interference immunity	EN 61000-6-2			
Ambient temperature	–10 °C ... + 70 °C (derating 45 °C ... 70 °C), no condensation			
Transport and storage temperature	– 25 °C ... + 85 °C			
Mounting	attachment to DIN rail, screw attachment possible on 3 sides of enclosure			
Connection	removable screw terminals 0.5 ... 2.5 mm ²			
Dimensions (W x H x D) in mm	approx. 52 x 170 x 110 incl. DIN rail clip			
Weight	0.8 kg	0.8 kg	0.9 kg	0.9 kg
Certifications	CE, UL 508 (Listed, File E197259), CSA C22.2 No 14			

The information provided in this brochure contains merely general descriptions or performance characteristics which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.