SIEMENS

SITOP power 24V/ 0,5A
Power out of 22.5 mm – ideal for low-voltage swichgear

The latest developments in SITOP

SITOP power standard, even for the lowest current requirements.

SITOP power has lead the way into a new era of DC power supplies. Switch mode regulated power supplies have become the market standard for industrial DC applications within a short time thanks to their enormous advantages compared to unregulated and linear regulated power supplies. Up to now our extensive DC 24 V product range has covered units for widely differing applications with loads of 1.3 amp to 40 amp.
SITOP power can now offer even more or better said even less. The compact, slimline power supplies provide up to 0.5 amp and are thus the minimum-cost solution for the lowest power applications.

For an easy changeover to standard low-voltage switchgear

There is a good reason for the mini power supplies being only 22.5 mm wide: this design is a standard for time-delay and monitoring relays. The wide-range input allows connection to AC or DC voltages from 30 to 264 V. This enables a smooth changeover to inexpensive 24 V standard low-voltage switched-mode PSUs, even if you only have access to other voltages. And that means no extra costs for special voltage versions, and immediate availability from stock.

Universally applicable

The extremely wide input range allows connection to all supply systems. And not only in industry but also in a residential environment, thanks to the radio interference level B. Since the minimum-size SITOPs supply a constant 24 V, even at extreme temperatures of -20° or +70°C maximum, applications under harsh conditions present no problems. This is an important prerequisite in the trend toward a distributed configuration.

Minimum space requirement

Weighing only 110 and 140 grams, the DIN rail units take up very little space. The slim design requires hardly any mounting area and the extremely low space gives you plenty of freedom.

Technical specifications of **SITOP power 24 V/0,5 A**

Technical specifications	AC version	DC version
Input Voltage V_{in}	Single-phase AC voltage	DC voltage
• Rated value $V_{in\ rated}$	120 - 230 V AC wide-range input	48 - 220 V DC wide-range input
• Range	93 to 264 V AC	30 to 264 V DC (30 to 187 V AC)
Line supply buffering at $I_{out\ rated}$	>10 ms at V_{in} = 230 V AC	>10 ms at V_{in} = 220 V DC
Frequency		
• Rated value	50/60 Hz	-
• Range	47 to 63 Hz	-
Input current I_{in}		
• Rated value $I_{in\ rated}$	0.22 - 0.13 A	0.3 - 0.07 A
• Inrush current (+25°C)	1.1 A^2s	1.2 A^2s
• Unit protection	Internal	
Output voltage V_{out}	Regulated floating DC voltage	
• Rated value $V_{out\ rated}$	**24 V DC**	
• Tolerance, static approx.	± 2 %	
• Residual ripple	< 150 mV_{pp}	
• Switching peaks	< 250 mV_{pp}	
• Setting range	-	
Output current I_{out}		
• Rated value $I_{out\ rated}$	**0.5 A**	**0.375 A**
• Range	0 to 0.5 A	0 to 0.375 A
Efficiency at $V_{in\ rated}$ and $I_{out\ rated}$	> 75 %	> 65 %
Connectable in parallel	No	
Electronic short-cct protection	Yes, auto-restarting	
Indication	Green LED for 24 V OK	
Class of protection	Class I (IEC 536)	
Degree of protection	IP 20 (VDE 0470 Part 1)	
Isolation	Yes, SELV (EN 60950)	
Certification/approvals	CE, UL (UL 508)/cUL	
Electromagnetic compatibility EMC		
• Emitted interference	EN 50081-1, emitted interference Class B (EN 55022)	
• Noise immunity	EN 50082-2	
Ambient temperature	-20 to + 70°C / -4° to 158°F	-20 to +70°C derating from 60°C / -4 to +158°C derating from 140°C
Transportation and storage temp.	-40 to + 85°C / -40° to 185°F	
Connections (solid or stranded wire)		
• Input connections	Each 1 x 0.5 to 2.5 mm^2 / 22 ... 12 AWG	
• Output L+ connections	1 x 0.5 to 2.5 mm^2 / 22 ... 12 AWG	
• Output M (ground) connections	2 x 0.5 to 2.5 mm^2 / 22 ... 12 AWG	
Dimensions (W x H x D)	22.5 x 80 x 91 mm	
Weight approx.	0.11 kg / 0.24 lb	0.14 kg / 0.31 lb
Ordering data Order No.	**6EP1331-2BA10**	**6EP1731-2BA00**

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