

Switched-mode power supplies – The ideal power source for your 24 V DC PLCs



The switched-mode power supply unit is indispensable in the fields of power engineering and automation. The technology features a high efficiency and the development of heat and power losses are thus kept to a minimum. The wide input voltage range which accepts both AC and DC power supplies guarantees world-wide use, even with fluctuating power networks and battery operated systems. The new devices feature integrated performance reserves of up to 50%; which avoid the necessity for over-dimensioning with high starting loads. They are also no-load and overload protected and feature permanent short-circuit proofing. Devices with adjustable output voltage, e.g. for compensation of voltage drops on long cable lengths enable matching to the demands of different applications. An additional annunciation module which can be retrofitted with a remote function for external switch on and off, as well as a relay output for indicating that the input/output is ok, optimise the monitoring features of the control.



Type	SN3-050-BU8	SN3-100-BV8	SN3-200-BV8	SN3-050-EU8	SN3-100-EU8	SN3-200-EU8
Rated input voltage						
110...120 V AC		•	•			
110...240 V AC	•					
220...240 V AC		•	•			
110...240 V AC/DC				•	•	•
Input voltage range						
85...264 V AC	•			•	•	•
85...132 V AC		•	•			
110...240 V AC						
184...264 V AC		•	•			
100...350 V DC	•			•	•	•
220...350 V DC		•	•			
Rated frequency						
47...64 Hz	•	•	•	•	•	•
Rated output voltage						
24 V DC	•	•	•	•	•	•
Setting range						
22-28 V DC				•	•	•
Tolerance of the rated output voltage in %	-1...+5	-1...+5	-1...+5	-1...+5	-1...+5	-1...+5
Rated output current $T_u < 60^\circ\text{C}$						
5 A	•			•		
10 A		•			•	
20 A			•			•
Rated output current $T_u < 40^\circ\text{C}$						
7 A	•			•		
15 A		•			•	
22 A			•			•
Current limitation in A						
At short-circuit	11	19	25	11	19	25
Short-circuit and overload protect	Permanent short-circuit proof, thermal protection					
Power failure bridging						
At rated load	>100 ms	> 50 ms	> 50 ms	> 100 ms	> 40 ms	> 40 ms
Degree of protection						
Housing	IP20	IP20	IP20	IP20	IP20	IP20
Terminals	IP20	IP20	IP20	IP20	IP20	IP20
Dimensions size/weight						
Height in mm	57	130	126	57	130	126
Width in mm	130	130	130	130	130	130
Depth in mm	126	126	126	126	126	126
kg	1	1.1	2.9	1	1.4	3.2
Mounting						
DIN rail EN50022	•	•	•	•	•	•
Function module can be retrofitted¹⁾						
Annunciation module SN3-000-MMEU8				•	•	•
Internal input fuse	4 AT	6.3 AT	12 AF	4 AT	6.3 AT	12 AF
Heat dissipation in W	< 15	< 29	< 56	< 15	< 29	< 56
Efficiency in %	> 88	> 88	> 88	> 88	> 88	> 88
Parallel connection ability	up to 5 devices	up to 5 devices	up to 5 devices	up to 5 devices	up to 5 devices	up to 5 devices
Product standard	EN61204					
Approvals	UL (file no. E190715)					