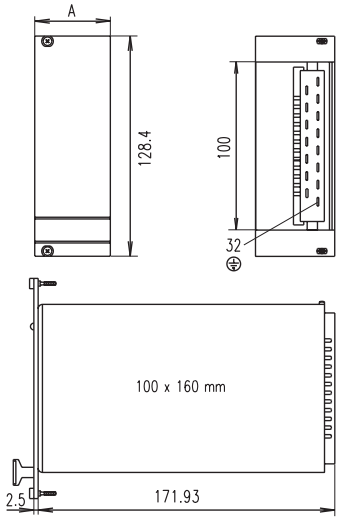
11399005

EN 60950

Single, 100 W *maxpower*

- High performance
- 19" compatible AC/DC switched mode power supplies, pluggable 3 U
- Wide range mains input voltage (90 – 254 V_{AC} and 100 – 360 V_{DC})
- Power factor correction (PFC) to EN 61000-3-2
- 1 output voltage
- Redundancy operation with integrated decoupling diode
- Even current share in the event of parallel operation via current share bus (CSB)
- Signalling: Output voltage OK
- For industrial and telecommunications applications
- International approvals EN 60950, UL
- High reliability and long life
- Cost-optimized



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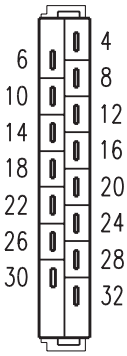

PSA46292

Pin	Connection
4	Output + V_1
6	
8	Sense + V_1
10	Sense 0V V_1
12	Output 0V V_1
14	
16	–
18	
20	
22	CSB
24	Output OK
26	–
28	L
30	N
32	PE ⏚

Note
The front panel is not included in delivery.

Output data at T_U = 0 ... 50 °C					Order No.[1]		
Voltage in V	Current (with 190 V_{AC}) in A	Power output in W	Height in U	Width A in HP	Power supply Type	Mains voltage 90 – 254 V_{AC}	Front panel[2] EMC
5	16,0	80	3	6	MAX 105	**13100-102**	**21006-943**
12	8.3	100			MAX 112	**13100-103**	
15	6.6	99			MAX 115	**13100-104**	
24	4.2	101			MAX 124	**13100-105**	

[1] Please order front panel separately

[2] Front anodised, rear side chromated, slotted on both sides for mounting EMC contact strips in the event of increased EMC requirements
(3 U EMC contact strips, Order No. 21101-705, 10 pieces)

Mating connector H15F with FASTON connection, Order No. 69001-733

Technical data

Input parameters					
Mains-voltage	Nominal values V_{AC}	100 – 240 V_{AC}			
	Operating-ranges	90 – 254 V_{AC} 100 – 360 V_{DC}			
Mains nominal current at 90 V_{AC}		1.6 A			
Mains frequency range		50 – 60 Hz			
Power factor correction in accordance with		EN 61000-3-2			
Efficiency type			63 %	75 %	77 %
Switch-on current I_P (with 230 V_{AC})		< 20 A			
Output parameters at		**190/90 V_{AC}**			
Output power max. (50 °C) [W]		80/65	100/72		100/80
Output voltage [V]	factory set	5	12	15	24
	Adjustment range Δ V	4.95–5.5	11.5–15.7		21.8–25.3
Output current [A]	0 ... 50°C	16/13	8.3/6	6.6/4.8	4.2/3.2
	70°C	12/10.5	6/4.8	4.8/3.8	3.2/2.6
Current limitation shuts the output off after approx. 10 ms, automatically resets after approx. 2 s, shuts power supply off following longer overload.		Permanently short-circuit protected			
Residual ripple/ Interference voltage (BW: 30 MHz) [mV_{PP}]		< 50	< 50		< 60
Mains and load control, static (load change 0 – 100 %) [mV_{PP}]		< 20	< 80	< 100	< 80
Temperature coefficient		-0.015 %/K			
CSB and output decoupled via diode		mounted			
Dynamic control deviations (load change: 10 ... 100 % with 100 Hz; dI/dt = 0.25 A/µs)					
Control time at 0.01 × $V_{1\ Nominal}$ [ms]		<0.8	<0.2		<0.1
Overshoot and undershoot amplitude		< 300 mV			

Protection and monitoring facilities					
Switch-on time		< 0.8 s			
Mains fuse		4 A/250 V_{AC}, 5 × 20 mm, EN 60127-2/V			
Power failurebridging at V_{AC} = 90 V_{AC} and 100 % load		>14 ms	>14 ms	>10 ms	>16 ms
Over-voltage protection OVP limits UA to		<8.2 V	<19 V		<34 V
Remote sense compensated		Max. 0.5 V			
"Output voltage ok" signalling		"Output OK" signal, active high			
	High level [V]	5	12	15	20
	Time delay	100 – 250 ms			
Test and environmental conditions					
Climatic test to		IEC 68-2-38			
Shock and vibration test in accordance with acceleration of 2 g		EN 60068-2-6			
Height 3 U/ depth 160 mm		Width 6 HP			
Weight (mass)		0.55 kg			
CE	Interference emission	EN 50081-1, EN 55011 Class B,			
	Interference immunity, degree of severity 3	EN 50082-2 EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11			
	Safety, class of protection 1	EN 60950			
High voltage test to EN 60950	Input-output	4.3 kV_{DC}			
	Input PE	2.2 kV_{DC}			
	Output PE	0.7 kV_{DC}			
UL 1950		applied for			
Power supply maintenance-free		Yes			
Cooling		Convection			
Operation/storage ambient temperature		0 ... 70°C / -20 ... +85°C			
MTBF at full load, T_U = 40°C		280,000 h (5 V – 220,000 h)			

Schematic wiring diagram