



19" compatible AC/DC switched mode



11300011

Triple, 100 W *maxpower*

- 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
- 3 output voltages
- Signalling: Output voltage OK
- For industrial applications
- International approvals EN 60950, UL
- High reliability and long life
- Cost-optimized



DUM0084

PSA46292

Pin	Connection
4	Output + V ₁
6	
8	Sense + V ₁
10	Sense 0V V ₁
12	
14	Output 0V V ₁ (V ₂)
16	Output + V ₂
18	Output 0V V ₂ (V ₁)
20	Output 0V V ₃
22	Output - V ₃
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	Height	Width A	Power supply	Mains voltage	Front panel ²⁾ EMC
V ₁	V ₂	V ₃	I ₁	I ₂	I ₃	in W	in U	in HP	Type	90 – 254 V _{AC}	
+5	+12	-12	8	2.5	2.5	100	3	8	MAX 312	13100-122	21006-945
+5	+15	-15	8	2,0	2,0				MAX 315	13100-123	

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

19" compatible AC/DC switched mode



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}		1.4 A
Mains frequency range		50 – 60 Hz
Power factor correction in accordance with		EN 61000-3-2
Efficiency type		> 73 %
Switch-on current I_p (with 230 V_{AC})		< 15 A
Output parameters at 190/90 V_{AC}		
Output power max. (50°C) [W]	40/35	60/38.4
Output voltage [V]	factory set	V_1 5 V V_2, V_3 ± 12 V ± 15 V
	Adjustment-range ΔV	4.95–5.5 11.5–15.7 11.5–15.7
Output current [A]	0 ... 50°C	8/7 2.5/1.6 2/1.3
	70°C	6/5.5 1.5/1.2 1.2/1
Current limitation shuts the output off after approx. 20 ms, automatically resets after approx. 0.5 s		Permanently short-circuit protected
Residual ripple/interferencevoltage (BW: 30 MHz) [mV_{PP}]	< 80	< 150
	Mains and load control, static (load change 0 – 100 %) [mV_{PP}]	< 25
Temperature coefficient	-0.015 %/K	
Dynamic control deviations (load change: 10 ... 100 % with 100 Hz; $di/dt = 0.25 A/\mu s$)		
Control time at $0.01 \times V_1$ Nominal [ms]	< 0.8	
Overshoot and undershoot amplitude [mV]	< 250	

Protection and monitoring facilities		
Switch-on time	< 1.5 s	
Mains fuse, high breaking sluggish	4 A/250 V_{AC} , 5 × 20 mm, DIN EN 60127-2/V	
Power failurebridging at $V_{AC} = 90 V_{AC}$ and 100 % load $V_1/V_{2,3}$	> 16 ms/5 ms	
Over-voltage protection OVP (shuts power supply off, diode alloyed through) set to	< 7.2 V –	
Remote sense compensated	Max. 0.5 V	
"Output voltage ok"	"Output OK" signal, active high signalling	
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 8 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,
	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, $T_U = 40^\circ C$	220,000 h	

Schematic wiring diagram

