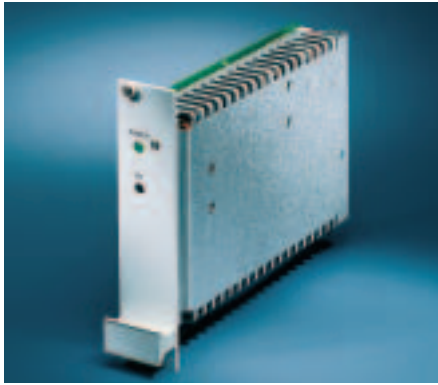




19" compatible AC/DC switched mode



11396002

Single, 50 W

ecopower

- 19" compatible AC/DC switched mode power supplies, pluggable 3 U x 160 mm deep
- Wide range mains input voltage range (wide range from 90 – 264 V_{AC} and 130 – 340 V_{DC})
- 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
- High reliability and long life
- Cost-optimized

ERG
EN 60950



100 x 160 mm

171.93

2.5

128.4

100

32

A

DJM0084

4
8
12
16
20
24
28
32

6
10
14
18
22
26
30

PSA46292

Pin	Connection
4	Output + V ₁
6	Output + V ₁
8	Sense + V ₁
10	Sense 0V V ₁
12	Output 0V V ₁
14	Output 0V V ₁
16	
18	-
20	
22	CSB
24	Output OK
26	-
28	L
30	N
32	PE ⊕

Note

The front panel is not included in delivery.

Voltage in V	Output data with T _U = 0 ... 50 °C			Height in U	Width A in HP	Power supply Type	Order No. ¹⁾	
	Current in A	Power output in W	Mains voltage 90 – 264 V _{AC}				Front panel ²⁾ EMC	
5	9.0	45	3	6	SEK 105	13100-043	21006-943	
12	4,2	51			SEK 112	13100-044		
15	3,4				SEK 115	13100-041		
24	2,1				SEK 124	13100-045		
48	1,1				53	SEK 148		13100-046

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, 10 units, Order No. 21101-705)

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 – 264 V_{AC} 128 – 370 V_{DC}
Mains nominal current at 90 V_{AC} /187 V_{AC}	1.3/0.6 A	
Mains frequency range	Type 48 – 62 Hz	
Mains input current in accordance with	EN 61000-3-2 + A14	
Efficiency	Type 69 – 80 %	
Switch-on current I_p (with 230 V_{AC})	< 20 A	
Discharge current	\leq 500 μ A	

Output parameters						
Output power [W]	45	51			53	
Output voltage ΔV [V]	factory set	5	12	15	24	48
	Adjustment range	4.2–6	11–13.5	13.5–16.5	21–25.5	43–50
Output current (with 90 – 264 V_{AC}) [A]	0 ... 50°C	9.0	4.2	3.4	2.1	1.1
	70°C	6.0	2.9	2.4	1.5	0.8
Short-circuit current [A]	< 11	< 6	< 4.5	< 3	< 2	
Over-voltage protection OVP (shuts power supply off), automatically resets [V]	6 ± 0.3	14 ± 0.5	17 ± 0.5	27 ± 1	52 ± 2	
Residual ripple with [mV _{PP}]	100 Hz	20	< 100	< 100	< 100	< 150
	Clock frequency (100 kHz)	< 40	< 50	< 50	< 50	< 60
Interference voltage (BW: 100 MHz) [mV _{PP}]	< 100	< 200	< 200	< 200	< 200	
Load control, static (load change 0 – 100 %) [mV]	< 50	< 50	< 50	< 100	< 100	
Mains control 90 – 264 V [mV]	< 10	< 25	< 25	< 100	< 100	
Temperature coefficient	-0.015 %/K					
CSB and output decoupled via diode	Mounted					

Dynamic control deviations

(load change: 50 ... 100 % with 100 Hz; $di/dt = 0,135$ A/ μ s)						
Control time at $0.01 \times V_1$ Nominal	< 1.5 ms					
Overshoot and under-shoot amplitude [mV]	< 500	< 250		< 300	< 500	

Protection and monitoring facilities

Switch-on time	< 0.8 s
Mains fuse, high breaking sluggish	4 A/250 V_{AC} , 5 \times 20 mm, DIN EN 60127-2/V
Power failure bridging at $V_{AC} = 187$ V_{AC} and 100 % load	> 30 ms
Remote sense compensated	Max. 0.5 V
Characteristic current-limiting curve	U/I
"Output voltage ok" signalling	Output OK, open collector signal, low active, max. 55 V/50 mA

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, EN 55022 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 (ERG)
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	No. E 153809	
Power supply maintenance-free	Yes	
Cooling	Convection	
Operation/storage ambient temperature	0 ... 70°C / -20 ... +85°C	
MTBF at full load, $T_U = 40^\circ\text{C}$	500,000 h	

