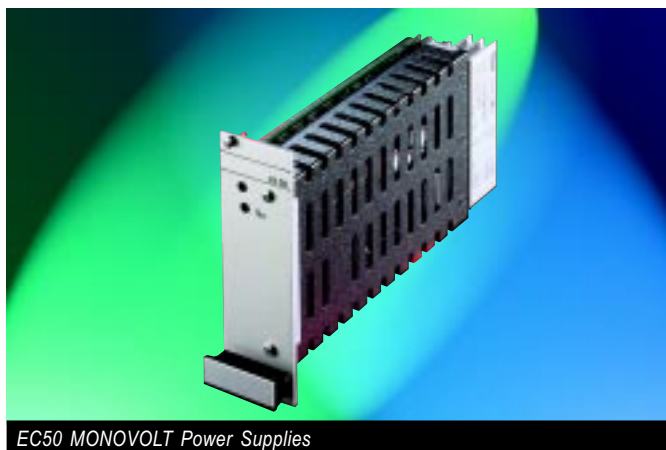


EC-Series: MONOVOLT

Primary switched mode 50 Watt single output power supplies for use in 19" subracks to DIN41494

Features

- Reduced cost primary switched mode power supply
- Plastic coated steel cover
- Overvoltage protection (OVP)
- No load and short circuit proof
- Powerfail signal
- Coded H15 connector
- Standardized pinning



EC50 MONOVOLT Power Supplies

Ordering information

Description: Economy power supply; 3U x 8HP, 50Watt output

Type	Output	Order-code
EC 50	5V/8A	116-010188J
EC 50 with Powerfail	5V/8A	116-010189F
EC 50	12V/4A	116-010190G
EC 50	15V/3,5A	116-010192A
EC 50	24V/2,2A	116-010194F

Description: Accessories

Front panel kit with handle, idents and screws	148-010002K
Mating connector coded H15 to DIN 41612	017-010115K
Coding keys Pkt 10	017-010064F

Technical Data EC Series: Monovolt EC50

Input specification

Input voltage:	93-264VAC wide input
Input frequency:	47-63Hz
Inrush surge current limitation:	by NTC resistor
Input overvoltage protection:	by VDR
Hold up time (Nominal V_{IN} ; 100% I_{OUT}):	>20ms
Efficiency:	typ. 68-75%

Safety (Compliant with Low Voltage Directive 73/23/EEC)

Certified to, or meets the requirement of: EN60950, IEC 950, VDE 0805, EN41003 (EC100)

EMC (Compliant with EMC Directive 89/336/EEC)

Emmissions:	EN 55022/B (0,15-30MHz)
Immunity:	EN50082-2
Electro Static Discharge:	EN61000-4-2
Electrical fast transients/Burst:	EN61000-4-4
RF Conducted disturbance:	EN50141
RF Field susceptibility:	EN50140

Environmental

Operating temperature:	0°C to +70°C
Storage temperature:	-25°C to +85°C
Relative humidity:	Non-condensing 5% - 95%

Physical

Case material/finish: ventilated plastic coated steel cassette with cooling cutouts and rear heat sink.
DIN 41494 part 5 compatible

* EN 60950 certified

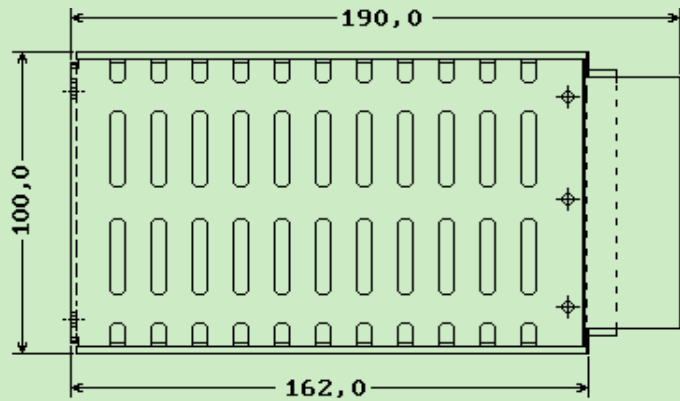
Output specifications

EC50	V1	V1	V1	V1
Output voltage:	5V	12V	15V	24V
Adjustment range:	4,5-5,5V	10,8-13,2V	13,5-16,5V	21,6-26,4V
Output current:	0-8A	0-4A	0-3,5A	0-2,2A
Ripple:	>40mV _{pp}			
Line regulation (100% I_{OUT}): ΔiV_{OUT}	>0,2%			
Load regulation static (10...90% I_{OUT}): ΔiV_{OUT}	>1%			
Transient response (10...90% I_{OUT}):	>1ms			
Switching frequency, converter type::	25kHz Flyback converter			
Current limit:	>8,8A	>4,4A	>3,8A	>2,4A
Overvoltage protection (OVP):	continuous, automatic restart			
Overvoltage protection (OVP):	6-6,7V	15,5-18V	17-19,5V	27-32V
Powerfail Signal (at full load) >6ms before V_{OUT} :	>6ms (@110VAC); >80ms (@220VAC) before $V1 < 4,8VAC$			
Temperature-Coefficient/°C:	0,05%			
Voltage compensation with SENSE max.,NOTE1:	-			
Derating:	1,2W/°C above 45°C			

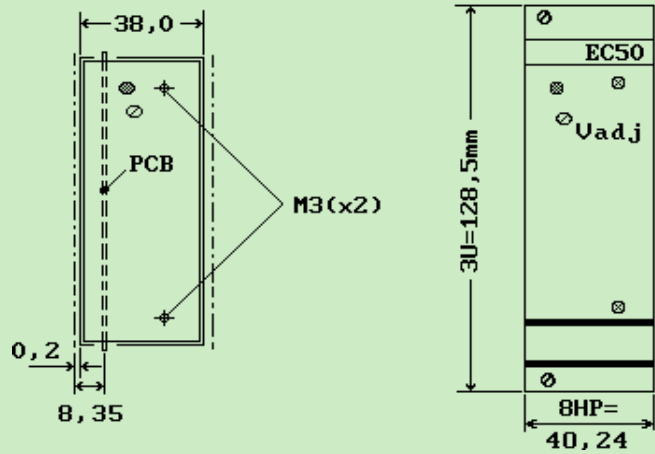
EC-Series: MONOVOLT

Mechanical Details

EC50
Weight: EC50 650g



EC50 Front panels



Pin allocation - H15 Connector

PIN	Function EC50
4	+Vout
6	+Vout
8	-Vout
10	-Vout
12	—
14	—
16	PF $\bar{Q}$
18	—
20	—
22	—
24	—
26	—
28	N
30	L
32	E

H15 Connector

