

PK-Series: BIVOLT

Primary switched mode power supplies for use in 19" sub racks to DIN41494, 30 or 60 Watt output.

Features

- High regulation accuracy
- Voltages adjustable
- Compact, rugged design
- Safety approvals to UL, cUL and EN60950
- CE marked for compliance to EMC and Low Voltage Directives
- SENSE operation (5V output)
- Overvoltage (OVP) and short circuit protected
- Remote On/Off
- No minimum load required
- Coded H15 connector
- Standardized pinning

Ordering information

Description: Bivolt PK30, PK60; 30 and 60 Watt outputs

Model	Output voltage	Order code
PK30 3U x 8HP	±12 - 15V/1A	116-010015G*

Description: Bivolt PK60, 60 Watt outputs

PK60-A 3U x 8HP	±12-15V/2A	116-010022A#
PK60-A 3U x 8HP	5V/6A;12-15V/2A	116-010024F#
PK60-C 3U x 8HP	5V/6A;24V/1,5A	116-010025C#
PK60-D 3U x 8HP	12-15V/2A;24V/1,5A	116-010080E#

Accessories:

Reduced height front panel (PK30)	148-010013C
Reduced height front panel (PK60)	148-010011J
Mating connector coded H15 to DIN 41612	017-010115K
Coding keys (pkt 10)	017-010064F



PK Series Bivolt Plug-in Power Supplies

Technical Data PK Series: Bivolt

Input specification

Input voltage selectable:	115/230VAC
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. >75%

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

Certified to:	EN60950, UL1950
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EMC (Compliant with EMC Directive 89/336/EEC)

Emmissions: EN 55022/B (0,15-30MHz); EN 55022/B (30-1000MHz)	
Immunity:	EN 50082-2
Electro Static Discharge:	EN 61000-4-2
Electrical fast transients/Burst:	EN 61000-4-4
RF Conducted disturbance:	EN 50141
RF Field susceptibility:	EN 50140

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: Clear anodised, ventilated aluminium cassette with cooling cutouts and front or rear heat sinks as required.
DIN 41494 part 5 compatible

* EN60950 and UL certified

EN60950

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Output specifications

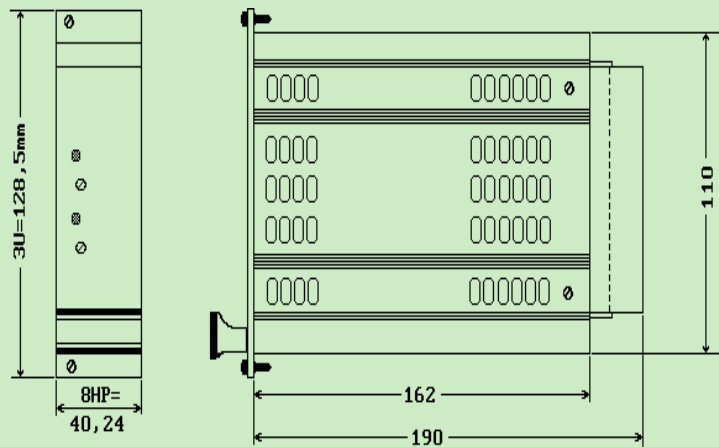
PK30	V1, V2
Output voltage:	±12V - 15V
Output adjustment range:	-
Output current:	±0-1A
Ripple:	<3mV _{pp}
Line regulation (100% I _{OUT}): Δ iV _{OUT}	<0,02%
Load regulation static (10...90% I _{OUT}): Δ iV _{OUT}	<0,5%
Transient response (10...90% I _{OUT}):	10ms
Switching frequency, converter type:	20-50kHz flyback converter
Current limit:	>2,2A
Short circuit protection:	continuous, automatic restart
Overvoltage protection (OVP):	-
Powerfail Signal (at full load) >6ms before V _{OUT} :	-
Temperature coefficient/°C:	0,02%
Voltage compensation with SENSE max.,NOTE1:	0,5V
Derating:	1,3W/°C above 55°C

PK60	A:V1,V2	B:V1,V2	C:V1,V2	D:V1,V2
Output voltage:	±12-15V	5V(4,5-5,5V)/12-15V	5V(4,5-5,5V)/24V(22-26V)	12-15V/24V(22-26V)
Output current:	±0-2A	0-6/0-2A	0-6/0-1,5A	0-2/0-1,5A
Ripple:	<20mV _{pp}	<40mV _{pp}	<40mV _{pp}	<40mV _{pp}
Line regulation (100% I _{OUT}): Δ iV _{OUT}			<0,2%	
Load regulation static (10...90% I _{OUT}): Δ iV _{OUT}	<0,5%	<0,2%/0,5%	<0,2%/0,5%	<0,5%
Transient response (10...90% I _{OUT}):			1ms	
Switching frequency, converter type:			25-50kHz flyback converter	
Current limit:	>2,2A	>6,5A/>2,2A	>6,5A/>1,5A	>2,2A/>1,5A
Short circuit protection:			continuous, automatic restart	
Overvoltage protection (OVP):			fixed on 5V output, optional to special order on others	
Temperature-Coefficient/°C:			0,02%	
Voltage compensation with SENSE max.,NOTE1:			0,5V maximum on 5V outputs	
Derating:			1,6W/°C above 55°C	

Mechanical details

PK30, PK60

Weight PK30, PK60: 850 g



Pin allocation - H15 Connector

PIN	function	PK30	PK60
		A	B
4	—	—	+5V
6	—	—	+5V
8	—	—	0V
10	—	—	0V
12 Note 1	—	—	+SENSE
14 Note 1	—	—	-SENSE
16	—	—	—
18	+12-15V	+12-15V	—
20	0V	0V	+12-15V
22	-12-15V	-12-15V	0V
24	—	—	—
26	—	—	—
28	N	N	N
30	L	L	L
32	E	E	E

Note 1: Sense lines must be connected. For maximum compensation for supply lead voltage drop they should be connected as close to the load as possible.