PK-Series: BIVOLT

Primary switched mode power supplies for use in 19" subracks 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

PK Series Bivolt Plug-in Power Supplies

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**

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

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

PK-Series: BIVOLT

Output specifications

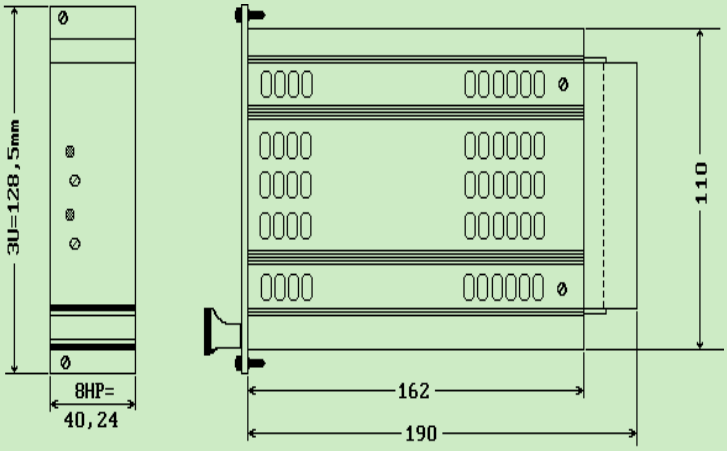
PK30	V1, V2
Output voltage:	**±12V - 15V**
Output adjustment range:	-
Output current:	**±0-1A**
Ripple:	<3mV$_{PP}$
Line regulation (100% I_{OUT}): Δ iV_{OUT}	<0,02%
Load regulation static (10...90% I_{OUT}): Δ iV_{OUT}	<0,5%
Transient response (10...90% I_{OUT}):	10ms
Switching frequency, converter 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			

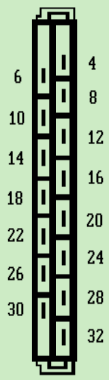
Mechanical details

PK30, PK60

Weight PK30, PK60: 850 g



Pin allocation - H15 Connector



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