

PK-Series: BIVOLT AC/DC

30 TO 60 WATT SWITCHED MODE AC/DC PLUG-IN POWER SUPPLIES WITH TWO OUTPUTS IN 3U/8HP EUROCASSETTES FOR USE IN 19" SUBRACKS TO DIN 41494

FEATURES:

- High regulation accuracy
- All voltages individually adjustable
- Compact rugged design in stable aluminium cassette
- EN60950, UL, and cUL approvals
- CE marked for compliance to EMC and Low Voltage Directives
- Overvoltage protection (OVP)
- No-load and short circuit proof
- Coded H15 connector
- VERO standardised pinning
- 24 months warranty

SPECIFICATION

INPUT SPECIFICATION

Input Data	
Input voltage (switchable)	94—253 VAC
Input frequency	47-63Hz
Inrush surge current limit	NTC ; by NTC
Input voltage spike limit	VDR; by VDR
Hold-up time	>20 msec (at nominal values)
Efficiency	typ. > 80%
Safety: CE marking according to low voltage directive 73/23/EEG	
Safety according to	EN60950, UL1950
EMC: CE marking according EMC directive 89/336/EEG	
EMI conducted & radiated emission	EN 55022/B (0,15-30MHz; 30-1000MHz)
EMI immunity	EN 50082-2
Operating temperature / Storage temperature	0°C...+70°C / -25°C...+85°C
Relative humidity	max.95% without condensation
Case material / finish	Clear anodised aluminium cassette with cooling cutouts

ORDER INFORMATION

BIVOLT PK30: 30 Watt			
Type	Size	Output	Order-Code
PK30	3U x 8HP	±12 - 15V/1A	116-10015 *

BIVOLT PK60: 60 Watt			
Type	Size	Output	Order-Code
PK60	3U x 8HP	±12-15V/2A	116-10022 **
PK60	3U x 8HP	5V/6A;12-15V/2A	116-10024 **
PK60	3U x 8HP	5V/6A ; 24V/1,5A	116-10025 **
PK60	3U x 8HP	12-15V/2A ; 24V/1,5A	116-10080 **

Accessoires	
reduced height frontpanel (PK30)	148-11002
reduced height frontpanel (PK60)	148-10011
DIN 41612 - mating connector	17-10115
coding keys pack 10	17-10064



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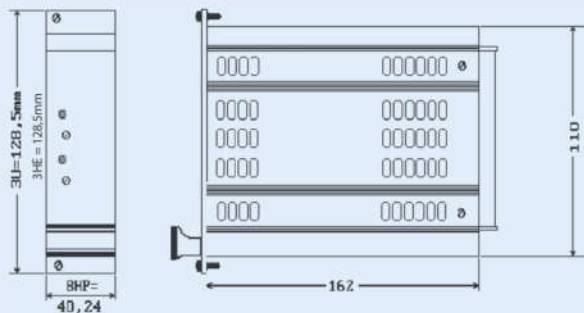
TECHNICAL DATA BIVOLT PK SERIES

BIVOLT PK30 30W Dual output	V1, V2
Output voltage	±12 – 15V
Output nominal current	1A
Ripple at full load	<3mVPP
Line regulation (100% IOUT)	<0,02%
Load regulation static (10...90%IOUT)	<0,5%
Response time (10...90%IOUT)	<10 µs
Output current limit	>1,1A
Short circuit protection	continuously, automatic restart
Temperature coefficient	0,02%/°C
Derating	1W/°C ab 55°C - 1W/°C above 55°C

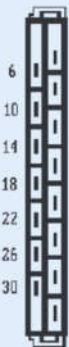
	116-10022	116-10024		116-10025		116-10080	
BIVOLT PK60 60W Dual output	V1, V2	V1	V2	V1	V2	V1	V2
Output voltage	±12-15V	5V	12-15V	5V	24V	12-15V	24V
Adjustment range	±12-15V	4,5-5,5V	12-15V	4,5-5,5V	22-26V	12-15V	22-26V
Output nominal current	2A, 2A	6A	2A	6A	1,5A	2A	1,5A
Ripple at full load	<20m _{VPP}	<40m _{VPP}		<40m _{VPP}		<40m _{VPP}	
Line regulation (100% IOUT)	<0,2%	<0,2%		<0,2%		<0,2%	
Load regulation static (10...90%IOUT)	<0,5%	<0,2%	<0,5%	<0,2%	<0,5%	<0,5%	
Response time (10...90%IOUT)	<1ms	<1ms		<1ms		<1ms	
Output current limit	>2,2A	>6,5A	>2,2A	>6,5A	>1,5A	>2,2A	>1,5A
Short circuit protection	continuously, automatic restart						
Overvoltage protection (OVP) fix	±16,5-19V	6-6,4V	16,5-19V	6-6,4V	26,4-31V	16,5-19V	26,4-31V
Powerfail signal (at full load >6ms)	>4,8V	>11,5V		>14,4V		>23,0V	
Temperature coefficient	0,02%/°C	0,02%/°C		0,02%/°C		0,02%/°C	
Output regulation with sense max.	—	0,5V max	—	0,5V max.	—	—	
Derating	1,6W/°C ab 55°C - 1,6W/°C above 55°C						

MECHANICAL DETAILS & CONNECTOR PINNING

PK30, PK60
PK30, PK60: 850 g



H15 connector



CONNECTOR PINNING

PIN	Function					
		PK30	PK60 A	PK60 B	PK60 C	PK60 D
4	—	—	+5V	+5V	+12-15V	
6	—	—	+5V	+5V	+12-15V	
8	—	—	GND 1	GND 1	GND 1	
10	—	—	GND 1	GND 1	GND 1	
12 *	—	—	+SENSE	+SENSE	—	
14 *	—	—	-SENSE	-SENSE	—	
16	—	—	—	—	—	
18	+12-15V	+12-15V	—	—	—	
20	GND	GND	+12-15V	+24V	+24V	
22	-12-15V	-12-15V	GND 2	GND 2	GND2	
24	—	—	—	—	—	
26	—	—	—	—	—	
28	N	N	N	N	N	
30	L	L	L	L	L	
32	PE	PE	PE	PE	PE	

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