

PK-Series: TRIVOLT AC/DC

60 TO 120 WATT SWITCHED MODE AC/DC PLUG-IN POWER SUPPLIES WITH THREE OUTPUTS IN 3U EUROCASSETTES FOR USE IN 19" SUBRACKS TO DIN 41494

FEATURES:

- 3 high stability outputs, all adjustable
- Safety approvals to UL, cUL and EN60950
- CE marked for compliance to EMC and Low Voltage Directives
- SENSE operation (5V output)
- Overvoltage protection (OVP)
- Powerfail signal
- No-load and short circuit proof
- Coded H15 connector
- VERO standardised pinning
- 24 months warranty

SPECIFICATION

Input Data	
Input voltage (switchable)	110/230 VAC
Input frequency	47-63Hz
Inrush surge current limit	by NTC
Input voltage spike limit	by VDR
Hold-up time	>20 msec (at nominal values)
Efficiency	typ. > 75%
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

Trivolt PK60: 3U x 8HP, 60 Watt				
Type	Outputs			Code
	V1	V2	V3	
PK60	5V/6A	+12-15V/1A	-12-15V/1A	116-10018 *
PK60-PF	5V/6A	+12-15V/1A	-12-15V/1A	116-10103 **
PK60	5V/6A	+12-15V/2A	-12-15V/0,5A	116-10101 *
PK60-PF	5V/6A	+12-15V/2A	-12-15V/0,5A	116-10102 **

Trivolt PK120: 3U x 14HP, 120Watt				
Type	V1	V2	V3	Code
PK120	5V/12A	+12-15V/2A	-12-15V/2A	116-10046 **
PK120-PF	5V/12A	+12-15V/2A	-12-15V/2A	116-10078 **

PF = Powerfail-Signal
 * EN60950 and UL certified
 ** EN60950 - certified

Accessories	Code
reduced height front panel: PK60	148-11000
reduced height front panel: PK120	148-10020
DIN 41612 - mating connector	17-10115
coding keys pack 10	17-10064

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TECHNICAL DATA

TRI PK60 60W Triple output	116-10018 / 116-10103			116-10101 / 116-10102		
	V1	V2	V3	V1	V2	V3
Output voltage	5V	+12V	-12V	5V	+12V	-12V
Adjustment range	4,5-5,5V	+12-15V	-12-15V	4,5-5,5V	+12-15V	-12-15V
Output nominal current 1)	6A	1A	1A	6A	2A	0,5A
Ripple at full load	<40m _{VPP}	<3m _{VPP}	<3m _{VPP}	<40m _{VPP}	<3m _{VPP}	<3m _{VPP}
Output current limit	>6,5A	>1,1A	>1,1A	>6,5A	2,1A	>0,6A
Short circuit protection	continuously, automatic restart					
Overvoltage protection (OVP) fix	6,0-6,7V	—	—	6,0-6,7V	—	—
Powerfail signal (at full load >6ms)	<4,8V	—	—	<4,8V	—	—
Line regulation (100% IOU)	<0,2%	<0,02%	<0,02%	<0,2%	<0,02%	<0,02%
Load regulation static (10...90%IOU)	<0,2%	<0,2%	<0,2%	<0,5%	<0,5%	<0,5%
Response time (10...90%IOU)	<1ms	<10µs	<10µs	<1ms	<10µs	<10µs
Temperature coefficient	0,02%/°C			0,02%/°C		
Output regulation with sense max.	0,5V	—	—	0,5V	—	—
Derating	1,6W/°C ab 55°C - 1,6W/°C above 55°C					

TRI PK120 120W Triple output	V1	V2	V3
Output voltage	5V	+12V	-12V
Adjustment range	4,5-5,5V	+12-15V	-12-15V
Output nominal current	12A	2A	2A
Ripple at full load	<40m _{VPP}	<20m _{VPP}	<20m _{VPP}
Line regulation (100% IOU)	<0,2%	<0,02%	<0,02%
Load regulation static (10...90%IOU)	<0,2%	<0,2%	<0,2%
Response time (10...90%IOU)	<0,2ms	<0,5ms	<0,5ms
Output current limit	>12,5A	>2,2A	>2,2A
Short circuit protection	continuously, automatic restart		
Overvoltage protection (OVP)	+5,5-6,0V adjustable	+16,5-19V fix	-16,5-19V fix
Powerfail signal (at full load >6ms)	>4,8V	—	—
Temperature coefficient	0,02%/°C	0,02%/°C	0,02%/°C
Output regulation with sense	0,5V max.	—	—
Derating	4W/°C ab 55°C - 4W/°C above 55°C		

MECHANICAL DETAILS & CONNECTOR PINNING

PK60

weight: PK60: 850g

H15 Connector

PIN	Function	PK60	PK120
4	+5V	+5V	+5V
6	+5V	+5V	+5V
8	GND1	GND1	GND1
10	GND1	GND1	GND1
12*	+SENSE	+SENSE	+SENSE
14*	-SENSE	-SENSE	-SENSE
16	PF Q/	PF Q/	PF Q/
18	+12-15V	+12-15V	+12-15V
20	GND 2/3	GND 2/3	GND 2/3
22	-12-15V	-12-15V	-12-15V
24	—	—	—
26	—	—	—
28	N	N	N
30	L	L	L
32	PE	PE	PE

PK120

weight: PK120: 1350g

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