

PBIH Series

15-45 WATTS DC/DC DUAL & TRIPLE OUTPUT

DC-DC CONVERTERS

Features

- Small size
- Dual/triple outputs
- Wide DC input voltage
- High efficiency
- Low output ripple/noise
- EMI filter
- Overvoltage protection



SPECIFICATIONS

INPUT	
Input voltage	12VDC (9.2–16), 24VDC (19–32), 48VDC (38–63), 110VDC (85–140)
OUTPUT	
Output voltage	See table
Voltage adjustment	±5% (V1 & V2 on dual) (V1 on triple except PBIH## xxF)
Output current	See table
Ripple & noise	Output Volts x 1% + 50mV pk-pk
Line regulation	0.8% over input range
Load regulation	1%, 0%–100% load
Holdup time	6–10mS depending on model
Temperature coefficient	0.03% per °C
Drift	Output V x 0.5% + 15mV per 8 hrs after 1 hr
Overcurrent protection	Fold back current limiting, except PBIH# TxF triple
Overvoltage protection	O.V. clamp. OVP is done with SCR. Input must be switched off for at least 30S to reactivate
OPERATING	
Efficiency	70%–84%, PBIH# TxF triple 62%
Safety isolation	Type – 12, 24, 48V input (1 minute) Input – Output: 1500VAC Input – Case: 1500VAC Output – Case: 500VAC Type – 110V input Input – Output: 2000VAC Input – Case: 2000VAC Output – Case: 500VAC
Insulation resistance	50MΩ Input – Case
Parallel operation	No

ENVIRONMENTAL	
Operating temperature	0°C to 50°C Full load
Derating	50°C to 60°C Half load
Storage temperature	-20°C to +85°C
Humidity	85%
Cooling	Free air convection
Shock	30G
Vibration	(5Hz–10Hz 10mm), (5Hz–50Hz) 2G
MECHANICAL	
Dimensions / Weight	PBIH# xxF: 118x80x25mm / 250g PBIH# xxG: 135x85x31mm / 380g PBIH# xxJ: 160x96x33mm / 470g
Connection	Screw terminal strip
STANDARDS AND APPROVALS	
C-tick	AS/NZSCISPR11, Group 1, Class A

PBIH Series

15-45 WATTS DC/DC DUAL TRIPLE OUTPUT

SELECTION TABLE DUAL OUTPUT

OUTPUT VOLTAGE MODEL NUMBER	5V	12V	15V	24V	-5V	-12V	-15V	OUTPUT POWER
PBIH# D1F		0.75A				0.5A		15W
PBIH# D2F			0.5A				0.5A	15W
PBIH# D6F		0.8A			0.8A			15W
PBIH# D3G	2.8A*			0.45A*				25W
PBIH# D3BG	1A*			0.9A*				25W
PBIH# D1G		1.2A*				0.9A*		25W
PBIH# D2G			1A*				0.7A*	25W
PBIH# D5G	2.8A*	0.9A*						25W
PBIH# D5BG	1.2A*	1.6A*						25W
PBIH# D3J	5A*			0.85A				45W
				(0.75A)*				
PBIH# D3BJ	1.5A			1.5A*				45W
								(1.4A)*
PBIH# D1J		2A*				1.7A		45W
						(1.5A)*		
PBIH# D1BJ		3A*				0.8A		45W
						(0.6A)*		
PBIH# D2J			1.7A				1.3A*	45W
			(1.5A)*					
PBIH# D5J	5A*	1.7A						45W
		(1.5A)*						
PBIH# D5BJ	1.5A	3A*						45W
								(1.4A)*

SELECTION TABLE TRIPLE OUTPUT

OUTPUT VOLTAGE MODEL NUMBER	5V	12V	15V	-5V	-12V	-15V	OUTPUT POWER
PBIH# T1F	1.8A	0.15A			0.15A		12.5W
PBIH# T3F	1.8A	0.15A		0.15A			12.5W
PBIH# T2F	1.8A		0.12A			0.12A	12.5W
PBIH# T1G	2.8A*	0.5A			0.4A		25W
PBIH# T1BG	0.7A	1.5A*			0.25A		25W
PBIH# T3G	2.8A*	0.5A		0.5A			25W
PBIH# T2G	2.8A*		0.36A			0.36A	25W
PBIH# T1J	5A	0.83A			0.83A		45W
		(0.73A)			(0.73A)		
PBIH# T1BJ	1A	3A			0.4A		45W
		(2.7A)			(0.3A)		
PBIH# T3J	5A	0.83A		0.83A			45W
		(0.73A)		(0.73A)			
PBIH# T2J	5A		0.65A			0.65A	45W
			(0.6A)			(0.6A)	

NOTE:

Input codes# = C12(12V), C24(24V), C48V), D(110V)

To obtain model number substitute # for input code.

* Galvanically isolated output

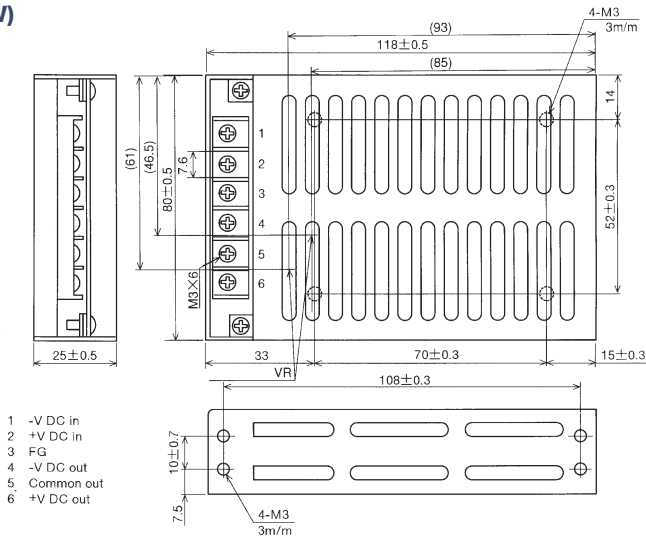
() Output current rating for 12V input units

PBIH Series

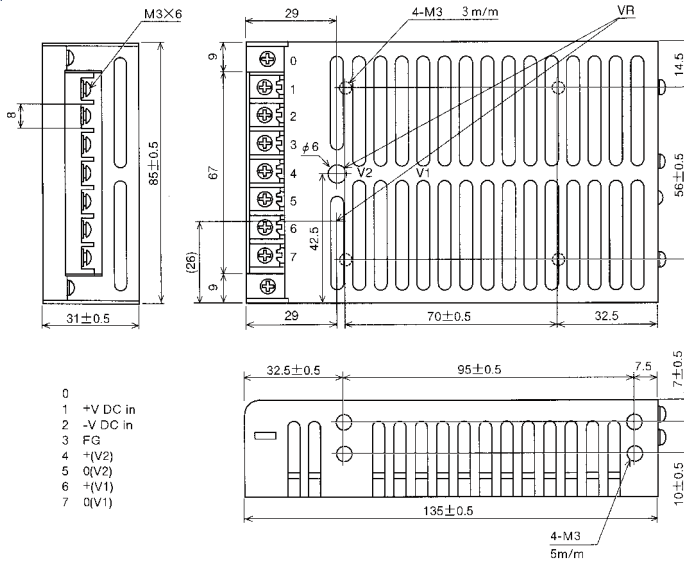
15-45 WATTS DC/DC DUAL TRIPLE OUTPUT

DC-DC CONVERTERS

PBIH-F (15W)



PBIH-G (25W)



PBIH-J (45W)

