

# PBIC Series

15-110WATTS - AC/DC & MULTIPLE DUAL OUTPUT

## FEATURES

- Worldwide inputs
- Compact size
- High efficiency and reliability
- 100% full load burn-in test
- Output voltage adjustable
- Overvoltage protection



## SPECIFICATIONS

INPUT	
Voltage	PBIC-F, G, J models: 85–264VAC PBIC-L, N models 85–132VAC/170–264VAC with auto select.
Frequency	47Hz–440Hz.
Inrush current	Typically 20A–30A @ 100VAC
Efficiency	66%–79% depending on model, at nominal input and full load.
Isolation	Input – Output: 3000VAC(1 min). Input – Case: 2500VAC(1 min). Output – Case: 500VAC (1 min).
Insulation resistance	PBIC-F, G, J, models: 50MΩhm, in – out – case. PBIC-L, N models: 100MΩhm, in – out – case.
OUTPUT	
Voltage	See table.
Voltage adjustment	PBIC-F, G, L models: ±5% V1, V2 & V3 fixed. PBIC-L, N models: ±5% V1, ±5% V2, V3 fixed.
Output current	See table.
Ripple & noise	PBIC-F, G, L models: Output V x 1% + 50mV. PBIC-L, N models: Output V x 1% + 100mV.
Line regulation	0.5% over input range.
Load regulation	0.03%–1% (0%-100% load) typical.
Temperature coefficient	0.3% per °C, -5°C to +50°C.
Drift	Output V x 0.1% +15mV per 8 hours after 1 hr
Overvoltage protection	PBIC-F, G models: 0V clamp, V1 only PBIC-J model: Output shutdown V1 only PBIC-L, N models: Output shutdown, V1 and V2
Overcurrent protection	PBIC-F, G, J models: Fold back current limit PBIC-L, N models: Automatic reset
Rise time	PBIC-F, G, J, models: 200mS max. PBIC-L, N models: 550mS max.
Holdup time	PBIC-F, G, J, models: 10mS (norm. input & output) PBIC-L, N models: 20mS (min, full load)

ENVIRONMENTAL	
Operating temperature	0° to 40°C with cover & vertical mount 0° to 50°C without cover & horizontal mount.
Storage temperature	-20°C to +85°C.
Humidity	85%.
Vibration	(5Hz–10Hz) 10mm, (10Hz–55Hz) 2G.
Shock	PBIC-F, J: 30G; PBIC-G: 10G.
STANDARDS	
Safety standards	Meets UL1950, EN60950, CE LVD 73/23/EEC, VDE805, CSA234.
C-Tick	AS/NZS CISPR11 Group 1, Class A
EMI standards	Built to meet FCC part 15 class B & VDE0871 class B (up to 150kHz) EN55022-B.

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## SELECTION TABLE

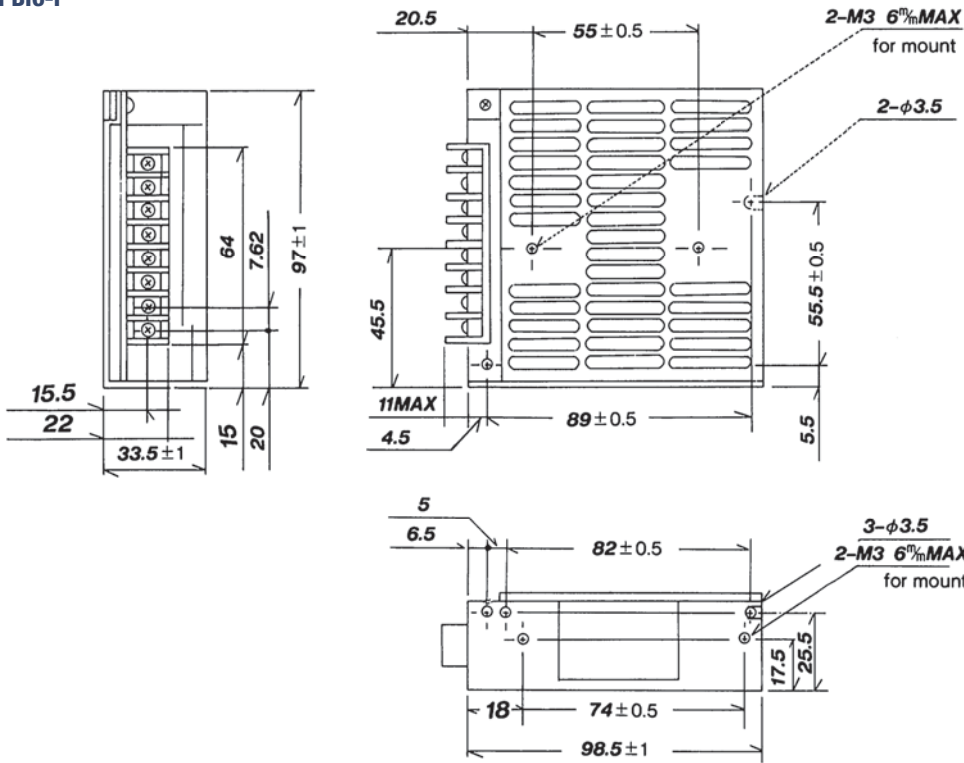
MODEL NUMBER	OUTPUT #1			OUTPUT #2			OUTPUT #3			MAX OUTPUT POWER
	VNOM	IMIN	IMAX	VNOM	IMIN	IMAX	VNOM	IMIN	IMAX	
PBIC-D3F	5V	0.2A	1.2A	24V	0A	0.4A				15W
PBIC-D1F	12V	0.2A	0.8A	12V	0A	0.5A				15W
PBIC-D2F	15V	0.2A	0.5A	15V	0A	0.5A				15W
PBIC-D5F	5V	0.2A	1.8A	12V	0A	0.5A				15W
PBIC-D3G	5V	0.2A	2.6A	24V	0A	0.5A				25W
PBIC-D3BG	24V	0.2A	0.85A	5V	0A	0.9A				25W
PBIC-D1G	12V	0.2A	1.2A	12V	0A	0.9A				25W
PBIC-D2G	15V	0.2A	0.85A	15V	0A	0.85A				25W
PBIC-D5G	5V	0.2A	2.6A	12V	0A	0.9A				25W
PBIC-D5BG	12V	0.2A	1.7A	5V	0A	0.9A				25W
PBIC-D3BJ	24V	0.5A	1.7A	5V	0A	1.8A				50W
PBIC-D1J	12V	0.5A	3.0A	12V	0A	1.2A				50W
PBIC-D2J	15V	0.5A	1.8A	15V	0A	1.5A				50W
PBIC-D5J	5V	0.5A	5.0A	12V	0A	1.8A				50W
PBIC-D5BJ	12V	0.5A	3.4A	5V	0A	1.8A				50W
PBIC-D3L	5V	0.5A	10A	24V	0A	2A (P) 3A				80W
PBIC-D3BL	5V	0.5A	6A	24V	0A	3A (P) 3.5A				80W
PBIC-D1L	1V	0.2A	5A	12V	0A	5A (P) 5A				80W
PBIC-D2L	15V	0.2A	4A	15V	0A	3.2A				80W
PBIC-D5L	5V	0.5A	10A	12V	0A	4A (P) 5A				80W
PBIC-D5BL	5V	0.5A	6A	12V	0A	6A (P) 7A				80W
PBIC-D3N	5V	0.5A	15A	24V	0A	3A (P) 4A				110W
PBIC-D1N	12V	0.2A	7A	12V	0A	4.2A (P) 5A				110W
PBIC-D2N	15V	0.2A	5.6A	15V	0A	3.6A				110W
PBIC-D5N	5V	0.5A	15A	12V	0A	6A (P) 7A				110W
PBIC-D5BN	24V	0A	4.3A (P) 5A	(V3) 5V	0A	1.5A				110W
PBIC-T1F	5V	0.2A	2.0A	12V	0A	0.3A	-12V	0A	0.2A	15W
PBIC-T3F	5V	0.2A	2.0A	12V	0A	0.3A	-5V	0A	0.2A	15W
PBIC-T2F	5V	0.2A	2.0A	15V	0A	0.2A	-15V	0A	0.2A	15W
PBIC-T1G	5V	0.2A	3.0A	12V	0A	0.5A	-12V	0A	0.35A	25W
PBIC-T3G	5V	0.2A	3.0A	12V	0A	0.5A	-5V	0A	0.35A	25W
PBIC-T2G	5V	0.2A	3.0A	15V	0A	0.35A	-15V	0A	0.35A	25W
PBIC-T1J	5V	0.5A	5.0A	12V	0A	1.5A	-12V	0A	0.5A	50W
PBIC-T3J	5V	0.5A	5.0A	12V	0A	1.5A	-5V	0A	0.5A	50W
PBIC-T2J	5V	0.5A	5.0A	15V	0A	1.2A	-15V	0A	0.5A	50W
PBIC-T1L	5V	1A	10A	12V	0A	4A (P) 5A	-12V	0A	1A	80W
PBIC-T3L	5V	1A	10A	12V	0A	4A (P) 5A	-5V	0A	1.5A	80W
PBIC-T2L	5V	1A	10A	15V	0A	3.2A	-15V	0A	1A	80W
PBIC-T4L	5V	1A	10A	24V	0A	2A (P) 3A	+12V	0A	1A	80W
PBIC-T1N	5V	1A	15A	12V	0A	4.2A (P) 5A	-12V	0A	1.2A	110W
PBIC-T3N	5V	1A	15A	12V	0A	4.2A (P) 5A	-5V	0A	1.5A	110W
PBIC-T2N	5V	1A	15A	15V	0A	3.6A	-15V	0A	1A	110W
PBIC-T4N	5V	1A	15A	24V	0A	2.1A (P) 3A	+12V	0A	1.2A	110W

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## TECHNICAL ILLUSTRATIONS PBIC-F



## PBIC-G

