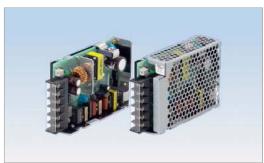
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PBW50F





Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]	
PBW50F-5	DC 110 - 370 AC 85 - 264	30	-5 - 5V 3 - 4A	
PBW50F-12	DC 110 - 370 AC 85 - 264	50.4	-12 - 12V 2.1 - 2.7A	
PBW50F-24	DC 110 - 370 AC 85 - 264	51	-15 - 15V 1.7 - 2.4A	

Features

Harmonic attenuator, PFC (Complies with IEC61000-3-2) DIN Rail Attachment (Optional) Universal input voltage V1 isolated from V2 Super small-size & light weight Built-in Over Current Protection RoHS Compliant

Safety Agency Approvals

Complies with DEN-AN EN50178, UL60950-1 EN60950-1 C-UL (CSA60950-1)

EMI Compliance

CISPR22-B EN55022-B VCCI-B EN55011-B Complies with FCC Part 15 classB

Ordering information

CNUS & CE **RoHS**

Recommended Noise Filter NAC-06-472

High voltage pulse noise type : NAP series Low leakage current type : NAM series

Cover is optional

- ① Series name ② Dual output ③ Output wattage ④ Universal input
- ⑤Output voltage ⑥Optional
- C :with Coating
- G:Low leakage current (0.15mA max / ACIN 240V)
- E :Low leakage current and EMI class A (0.5mA max / ACIN 240V)
- T :Vertical terminal block
- J :Connector type
 R :with Remote ON/OFF
 N :with Cover
- N1 :with DIN rail
- V :Output voltage setting potentiometer externally

MODEL		PBW50F-5	PBW50F-12	PBW50F-15
MAX OUTPUT WATTAGE[W] *6		30	50.4	51
DC OUTPUT	VOLTAGE[V] *8	±5 (+10)	±12 (+24)	±15 (+30)
	CURRENT1[A]	3.0	2.1	1.7
	CURRENT2[A] *6	4.0	2.7	2.4

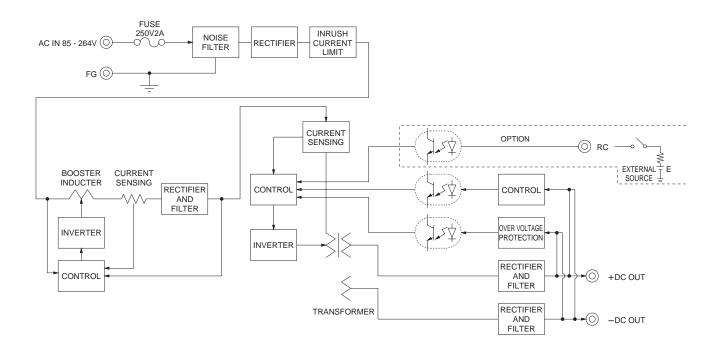
SPECIFICATIONS

	MODEL		PBW50F-5		PBW50F-12		PBW50F-15		
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage $*3$)						
INPUT	CUDDENTIAL	ACIN 100V	0.45typ (CURRENT1)		0.70typ (CURRENT1)				
	CURRENT[A]	ACIN 200V	0.30typ (CURRENT1)		0.40typ (CURRENT1)				
	FREQUENCY[Hz]		50/60 (47 - 63)						
		ACIN 100V	7 76typ (CURRENT1)		81typ (CURRENT1)		81typ (CURRENT1)		
	EFFICIENCY[%]	ACIN 200V	77typ (CURRENT1)		83typ (CURRENT1)		83typ (CURRENT1)		
		ACIN 100V	0.98tvp		0.99typ				
		ACIN 200V			0.93typ				
		ACIN 100V	15typ (CURRENT1) (At cold start)						
		ACIN 200V	30typ (CURRENT1) (At cold start)						
	LEAKAGE CURRENT[mA]		0.40/0.75max (ACIN 100V/240V 60Hz, lo=100%, According to IEC60950-1,DENAN)						
	VOLTAGE[V]		±5	/ (+10V reference number)	±12	/ (+24V reference number)	±15	/ (+30V reference number)	
			3.0	/ 3.0	2.1	/ 2.1		/ 1.7	
				/-	2.7	/-		/-	
	LINE REGULATION[m\	/1	20max	/ 36max	48max	/ 96max	60max	/ 96max	
	LOAD REGULATION 1		250max	/ 100max	600max	/ 150max	600max	/ 150max	
	LOAD REGULATION 2		500max	/-	750max	/-	750max	/-	
		0 to +50°C *1		/ 240max	120max	/ 240max	120max	/ 240max	
	RIPPLE[mVp-p]	-10 - 0°C *1		/ 320max	160max	/ 320max		/ 320max	
OUTPUT		0 to +50°C *1	120max	/ 300max	150max	/ 300max		/ 300max	
	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	160max	/ 360max	180max	/ 360max		/ 360max	
		0 to +50℃	50max		120max		150max		
	TEMPERATURE REGULATION[mV]	-10 to +50°C			150max		180max		
	DRIFT[mV] *2				48max		60max		
	START-UP TIME[ms]		350typ(ACIN 100V, Io=100%)						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT	RANGE[V]	4.99 - 6.00 (+V and -V are	simultaneously adjusted)	9.60 - 13.2 (+V and -V are simultaneously adjusted)		13.2 - 16.5 (+V and -V are simultaneously adjusted)		
	OUTPUT VOLTAGE SET	OUT VOLTAGE SETTING[V]		4.99 - 5.30 (+V and -V CURRENT1)		11.5 - 12.5 (+V and -V CURRENT1)		14.4 - 15.6 (+V and -V CURRENT1)	
	OVERCURRENT PROTEC		Works over 105% of rated current and recovers automatically						
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	TION[V]	6.90 - 10.0 16.8 - 24.0			20.0 - 29.0			
OTHERS	OPERATING INDICATION	NC	LED (Green)						
	REMOTE ON/OFF		Optional (Required external power source)						
	INPUT-OUTPUT · RC	*7	The state of the s						
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT · RC-FG *7		7.00000 Immitator Cation Carrona - Tooms (Decour Consequents)						
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		5 () () () () () () () () () (
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing) 3,000m (10,000feet) max						
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis						
SAFETY AND	AGENCY APPROVALS (At only AC input)								
	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B						
REGULATIONS	CE MARKING		Low Voltage Directive, EMC Directive						
	HARMONIC ATTENUAT	TOR	Complies with IEC61000-3-2						
OTHERS	CASE SIZE/WEIGHT		31 x 82 x 120mm (without terminal block) (W x H x D) / 280g max (without cover)						
	COOLING METHOD		Convection						

- Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN: RM101).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃.
- *3 Derating is required.

 *4 Figures for 0 to rated current 1.The current not measured
- side is fixed.
- *5 Figures for 0 to rated current 2.The current not measured
- *6 The sum of +power -power must be less than output power.*7 RC is applied to remote ON/OFF option. RC is isolated with input/output and FG.
- $\pm 5, \pm 12, \pm 15$ can be used as +10,+24 and +30.
- Parallel operation with other model is not possible.
- Derating is required when operated with cover.
 - A sound may occur from power supply at peak loading.

Block diagram



External view

※ External size of option T,J,R,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.

