Home > Product Details

PBW15F





Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
PBW15F-12	DC 110 - 370 AC 85 - 264	16.8	-12 - 12V 0.7 - 1.4A
PBW15F-15	DC 110 - 370 AC 85 - 264	15	-15 - 15V 0.5 - 1A

Features

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

PBW15F

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High voltage pulse noise type : NAP series Low leakage current type : NAM series *The Noise Filter is recommended to connect with several devices.

- (1)Series name
- 2 Dual output
- 3 Output wattage

 4 Universal input
- ⑤Output voltage ⑥Optional
 - C :with Coating
 - G:Low leakage current
 - E:Low leakage current and EMI class A
 - T :Vertical terminal block
 - J :Connector type
 - N:with Cover
- M1:with DIN rail
 V:Output voltage setting potentiometer externally

Cover	is	option	al
COVO	10	optioi	ı

MODEL		PBW15F-12	PBW15F-15
MAX OUTPUT WATTAGE[W] **		16.8	15.0
	VOLTAGE[V] *6	±12 (+24)	±15 (+30)
DC OUTPUT	CURRENT1[A]	0.7	0.5
	CURRENT2[A] *5	1.4	1.0

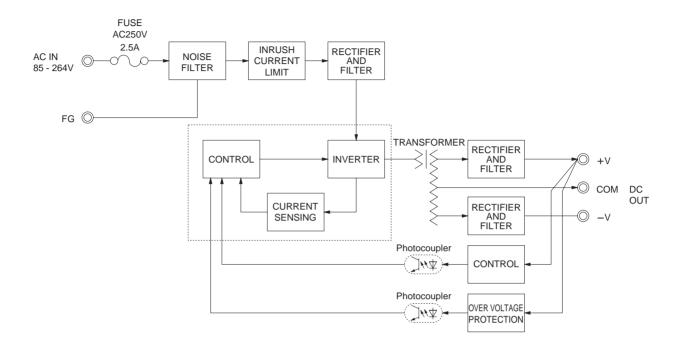
SPECIFICATIONS

	MODEL		PBW15F-12		PBW15F-15	
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage $*8$)			
INPUT	CUDDENTIAL	ACIN 100V	0.40typ (CURRENT1)			
	CURRENT[A] ACIN 200V		0.20typ (CURRENT1)			
	FREQUENCY[Hz]		50/60 (47 - 440) or DC			
	EEEIGIENGVI0/1	ACIN 100V	74typ (CURRENT1)		78typ (CURRENT1)	
	EFFICIENCY[%]	ACIN 200V	77typ (CURRENT1)		80typ (CURRENT1)	
			15typ (CURRENT1) (At cold start)			
			30typ (CURRENT1) (At cold start)			
	LEAKAGE CURRENT[mA]		0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)			
	VOLTAGE[V]		±12	/ (+24V reference number)	±15	/ (+30V reference number)
	CURRENT1[A]		0.7	/ 0.7	0.5	/ 0.5
	CURRENT2[A]	*5	1.4	/ -	1.0	/-
	LINE REGULATION[m)		60max	/ 96max	60max	/ 96max
	LOAD REGULATION 1		600max	/ 150max	600max	/ 150max
	LOAD REGULATION 2	[mV] *4	750max	/ -	750max	/ -
	RIPPLE[mVp-p]	0 to +50°C *1	120max	/ 240max	120max	/ 240max
	mi i EE[mi p p]	-10 - 0℃ *1	160max	/ 320max	160max	/ 320max
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	150max	/ 300max	150max	/ 300max
	Kii i EE NOIOE[iiivp-p]	-10 - 0℃ *1	180max	/ 360max	180max	/ 360max
	TEMPERATURE REGULATION[mV]	0 to +50°C	120max		150max	
	• •	-10 to +50℃	150max		180max	
	DRIFT[mV]	*2	48max		60max	
	START-UP TIME[ms]		200typ(ACIN 100V, lo=100%) *Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage.			
	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)			
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		9.60 - 13.2 (+V and -V are simultaneously adjusted) 13.2 - 16.5 (+V and -V are simultaneously adjusted)			
			11.5 - 12.5 (+V and -V CURRENT1) 14.4 - 15.6 (+V and -V CURRENT1) Works over 105% of rated current and recovers automatically			
PROTECTION				ent and recovers automatically	1000	
CIRCUIT AND	OVERVOLTAGE PROTEC		16.8 - 24.0 20.0 - 29.0			
OTHERS	OPERATING INDICATION	ON	LED (Green)			
	REMOTE ON/OFF		None	-t 40A D0500\/ 50Moi-	(At D T	
ISOLATION	INPUT-OUTPUT		AC3.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)			
ISOLATION	INPUT-FG OUTPUT-FG		AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)			
		PERATING TEMP.HUMID.AND ALTITUDE -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max				
	STORAGE TEMP., HUMID.AND		-20 to +75°C, 20 - 90%RH (Non condensing) 3,000m (10,000feet) max			
ENVIRONMENT	VIBRATION	ALIIIUUL	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	-		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN			
	CONDUCTED NOISE	,put/	Complies with FCC Part15 classB, VCCl-B, CISPR22-B, EN55011-B, EN55022-B			
NOISE REGULATIONS	CE MARKING		Low Voltage Directive, EMC Directive			
	HARMONIC ATTENUAT	TOR	Complies with IEC61000-3-2 (Not built-in to active filter *7)			
OTHERS	CASE SIZE/WEIGHT		31 x 78 x 85mm (without terminal		x (without cover)	
	COOLING METHOD		Convection			

- *1 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°C.

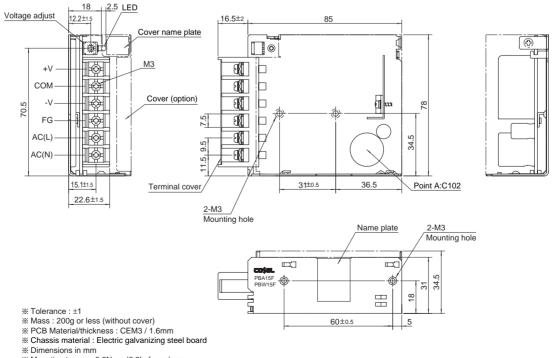
 *3 Figures for 0 to rated current 1.The current not measured side is fixed
- *4 Figures for 0 to rated current 2.The current not measured side is fixed.
- *5 The sum of +power -power must be less than output power.
- *6 ±12,±15 can be used as +24 and +30. *7 When two or more units are used,they may not comply with the harmonic attenuator. Please contact us for details.
- *8 Derating is required.
- *9 Figures to rated current 1.
- 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,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



- Mounting torque : 0.6N m(6.3kgf cm)max
 Screw tightening torque : M3 0.8N m(8.5kgf cm)max
 Please connect safety ground to the unit in 2-M3 holes.