Home > Product Details

## PBW30F



# °**™** ≜C€RoHS

#### Features

Universal input (AC85-264V) DIN Rail Attachment (Optional) V1 isolated from V2 Super small-size & light weight Built-in Over Current Protection RoHS Compliant

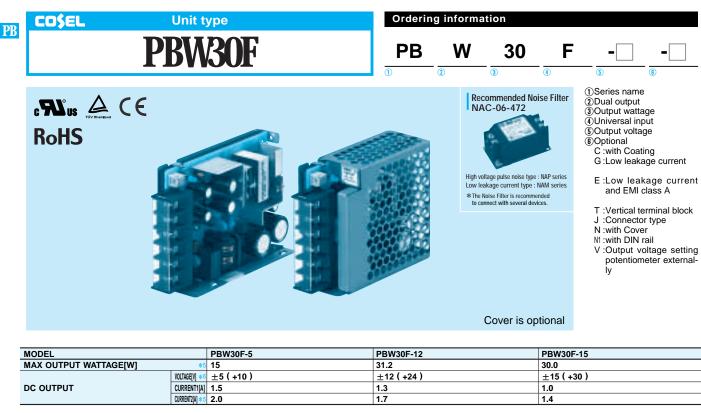
### Safety Agency Approvals

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

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A] -5 - 5V 1.5 - 2A	
PBW30F-5	DC 110 - 370 AC 85 - 264	15		
PBW30F-12	DC 110 - 370 AC 85 - 264	31.2	-12 - 12V 1.3 - 1.7A	
PBW30F-24	DC 110 - 370 AC 85 - 264	30	-15 - 15V 1 - 1.4A	



## **SPECIFICATIONS**

	MODEL		PBW30F-5 P		PBW30F-12		PBW30F-15		
	VOLTAGE[V]		AC85 - 264 1						
	ACIN 100V		0.4typ (CURRENT1) 0.7typ (CURRENT1)						
	CURRENT[A]	ACIN 200V	0.25typ (CURRENT1) 0.4typ (CURRENT1)						
	FREQUENCY[Hz]		50/60 (47 - 440) or DC						
NPUT			75typ (CURRE	,	77typ (CURRE	77typ (CURRENT1)		78typ (CURRENT1)	
	EFFICIENCY[%]		75typ (CURRENT1)		81typ (CURRENT1)		79typ (CURRENT1)		
			15typ (CURRENT1) (At cold start)						
			/ 30typ (CURRENT1) (At cold start)						
	LEAKAGE CURRENT[mA]		0.30/0.65max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)						
	VOLTAGE[V]		±5	/ ( +10V reference number )	±12	/ (+24V reference number )	±15	/ (+30V reference number	
	CURRENT1[A]		1.5	/ 1.5	1.3	/ 1.3	1.0	/ 1.0	
	CURRENTI[A] *5		2.0	/ 1.5	1.7	/ 1.5	1.4	/ 1.0	
			-	,				,	
	LINE REGULATION[mV] *9		zomax	/ 36max	60max	/ 96max	60max	/ 96max	
	LOAD REGULATION 1		250max	/ 100max	600max	/ 150max / -	600max	/ 150max / -	
	LOAD REGULATION 2		500max	/-	750max	,	750max	,	
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	/ 240max	120max	/ 240max	120max	/ 240max	
		-10 - 0℃ *1		/ 320max	160max	/ 320max	160max	/ 320max	
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	/ 300max	150max	/ 300max	150max	/ 300max	
		-10 - 0℃ *1	160max	/ 360max	180max	/ 360max	180max	/ 360max	
	TEMPERATURE REGULATIONImV1	0 to +50℃			120max		150max		
	-10 to +50°C				150max		180max		
	DRIFT[mV] *2		zomax		48max		60max		
	START-UP TIME[ms]			typ(ACIN 100V, lo=100%) * Start-up time is 700ms typ for less than 1 minute of applying input again from turning off the input volta					
	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)						
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]						13.2 - 16.5 (+V and -V are simultaneously adjusted		
	OUTPUT 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)				
PROTECTION CIRCUIT AND	OVERCURRENT PROTECTION		Works over 105% of rated current and recovers automatically						
	OVERVOLTAGE PROTECTION[V]		6.90 - 10.0 16.8 - 24.0				20.0 - 29.0		
OTHERS	OPERATING INDICATION		LED (Green)						
•••••	REMOTE ON/OFF		None						
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)						
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At Room Temperature)						
	OPERATING TEMP., HUMID.AND ALTITUDE		-10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max						
	STORAGE TEMP., HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing) 3,000m (10,000feet) max						
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis						
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS (At only AC input)		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN						
	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B						
			Low Voltage Directive, EMC Directive						
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Not built-in to active filter *7)						
OTHERS	CASE SIZE/WEIGHT		31 x78 x103mm (without terminal block) (W xH xD / 270g max (without cover)						
	COOLING METHOD		Convection						
OTHERS									
				Figures for 0 to rated current 2	The current pet a		roquirod		
*1 Measured	by 20MHz oscilloscope or R ivalent to KEISOKU-GIKEN			Figures for 0 to rated current 2 side is fixed.	2.The current not n	neasured *8 Derating is *9 Figures to r			

Derating is required when operated with cover.

A sound may occur from power supply at peak loading.

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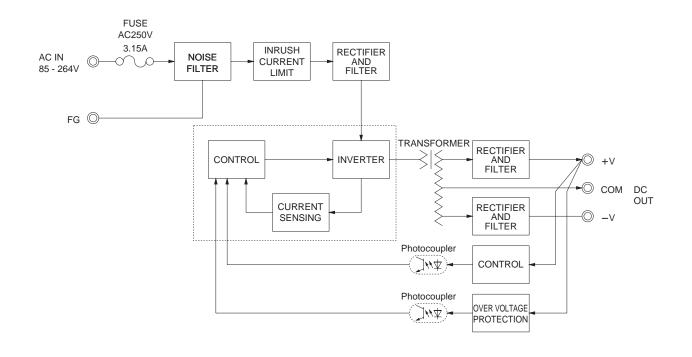
after a half-hour warm-up at 25°C. \*6 ±5,±12,±15 can be used as +10,+24 and +30. \*7 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

\*3 Figures for 0 to rated current 1.The current not measured side is fixed.

A-28

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**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.

