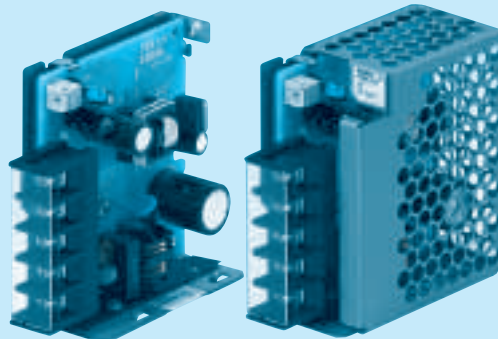


## PBA10F

PB A 10 F - □ - □  
 ① ② ③ ④ ⑤ ⑥



Cover is optional

- ① Series name  
 ② Single output  
 ③ Output wattage  
 ④ Universal input  
 ⑤ Output voltage  
 ⑥ Optional  
 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  
 (UL508 is pending for approval)  
 NI : with DIN rail  
 V : Output voltage setting potentiometer externally

MODEL	PBA10F-5	PBA10F-12	PBA10F-24
MAX OUTPUT WATTAGE[W]	10	10.8	12
DC OUTPUT	5V 2A	12V 0.9A	24V 0.5A

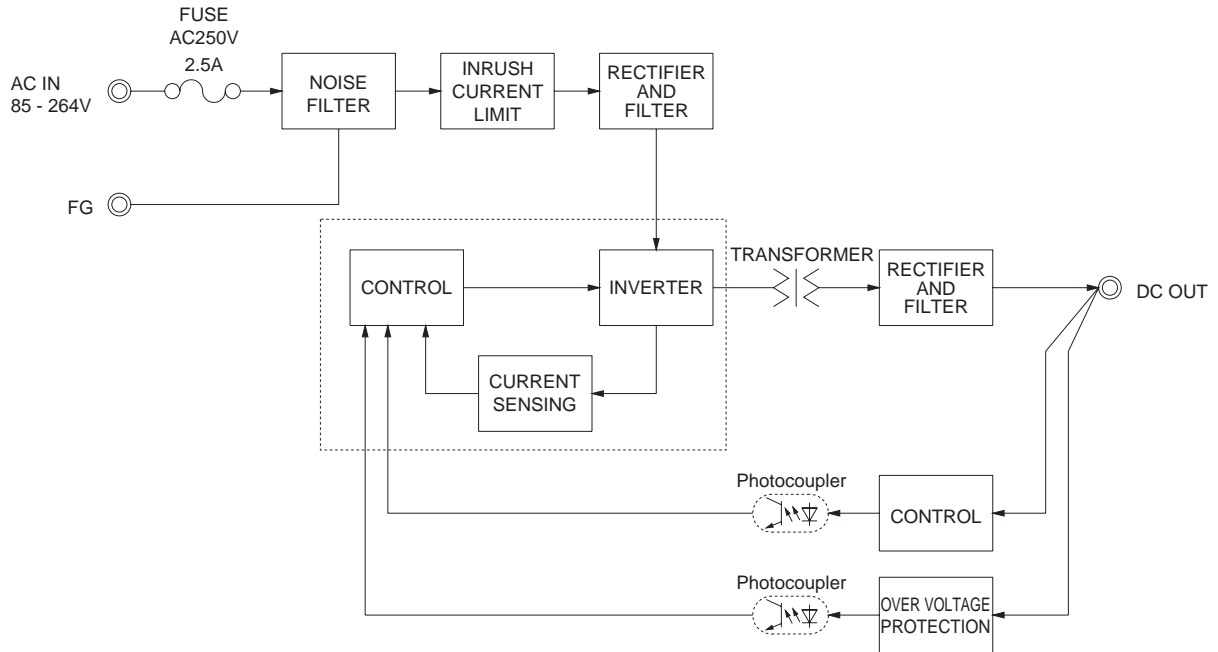
## SPECIFICATIONS

	MODEL	PBA10F-5	PBA10F-12	PBA10F-24	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *3)			
	CURRENT[A]	ACIN 100V	0.30typ (Io=100%)		
		ACIN 200V	0.20typ (Io=100%)		
	FREQUENCY[Hz]	50/60 (47 - 440) or DC			
	EFFICIENCY[%]	ACIN 100V	74typ	76typ	77typ
		ACIN 200V	74typ	76typ	77typ
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%)		
ACIN 200V		30typ (Io=100%)			
LEAKAGE CURRENT[ma]	0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%. According to IEC60950-1.DENAN)				
OUTPUT	VOLTAGE[V]	5	12	24	
	CURRENT[A]	2	0.9	0.5	
	LINE REGULATION[mV]	20max	48max	96max	
	LOAD REGULATION[mV]	40max	100max	150max	
	RIPPLE[mVp-p]	0 to +50°C *1	80max	120max	120max
		-10 - 0°C *1	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	150max	150max
		-10 - 0°C *1	160max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max	240max
		-10 to +50°C	60max	150max	290max
	DRIFT[mV]	*2 20max	48max	96max	
	START-UP TIME[ms]	200typ(ACIN 100V, Io=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, Io=100%)			
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	4.50 - 5.50	10.0 - 13.2	19.2 - 27.0		
OUTPUT VOLTAGE SETTING[V]	5.00 - 5.15	12.00 - 12.48	24.00 - 24.96		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rated current and recovers automatically			
	OVERVOLTAGE PROTECTION[V]	5.75 - 7.00	15.0 - 18.0	30.0 - 37.0	
	OPERATING INDICATION	LED (Green)			
	REMOTE ON/OFF	None			
ISOLATION	INPUT-OUTPUT	AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)			
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)			
	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩmin (At Room Temperature)			
ENVIRONMENT	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			
	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			
	CE MARKING	Low Voltage Directive, EMC Directive			
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 (Not built-in to active filter *4)			
OTHERS	CASE SIZE/WEIGHT	31 × 78 × 68mm (without terminal block) (W × H × D) / 150g max (without cover)			
	COOLING METHOD	Convection			

## Distribution:

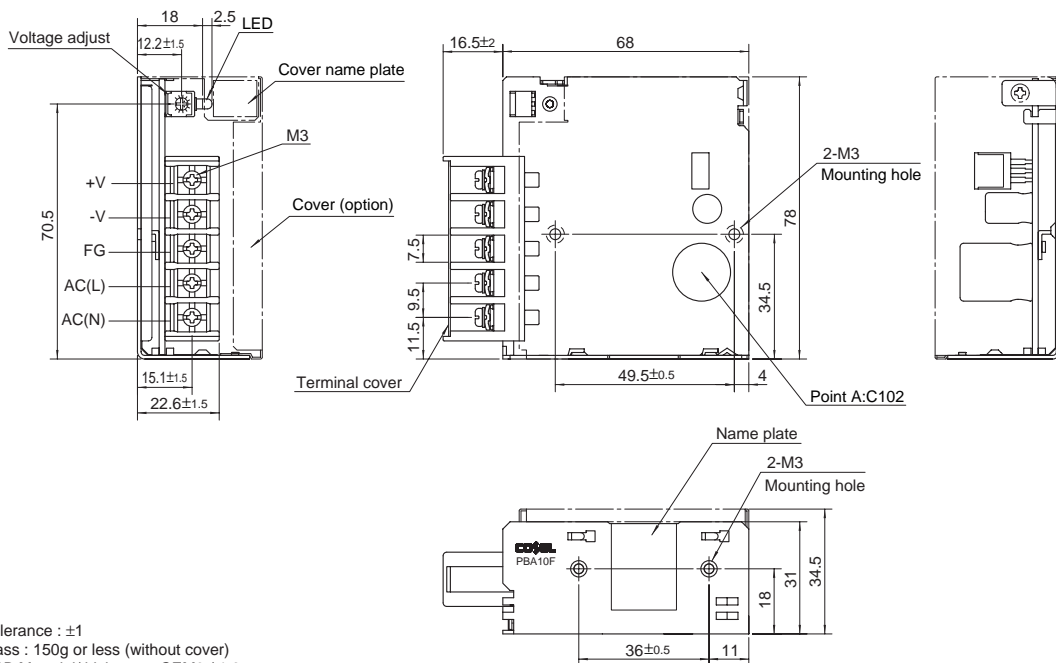
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Block diagram



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.



- ※ Tolerance : ±1
- ※ Mass : 150g or less (without cover)
- ※ PCB Material/thickness : CEM3 / 1.6mm
- ※ Chassis material : Electric galvanizing steel board
- ※ Dimensions in mm
- ※ 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.

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