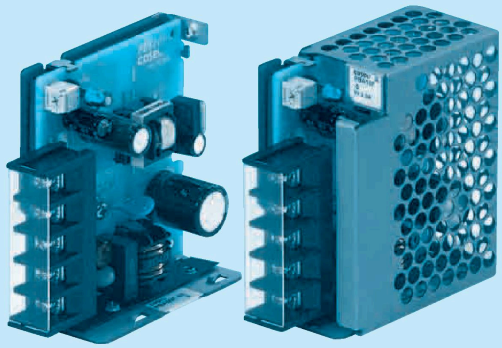
COSEL AC-DC Power Supplies Enclosed Type

PBA10F

Ordering information

PB ① A ② 10 ③ F ④ -□ ⑤ -□ ⑥



Cover is optional

Recommended EMI/EMC Filter
NAC-06-472

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

①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional ＊5
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 acquired)
N1 :with DIN rail and Cover
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 1φ 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]	＊6	20max	48max	96max
	LOAD REGULATION[mV]	＊6	40max	100max	150max
	RIPPLE[mVp-p]	0 to +50℃ ＊1	80max	120max	120max
		-10 - 0℃ ＊1	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊1	120max	150max	150max
		-10 - 0℃ ＊1	160max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max
		-10 to +50℃	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℃ (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max		
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing) 9,000m (30,000feet) 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 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		
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Not built-in to active filter ＊4) ＊7		
OTHERS	CASE SIZE/WEIGHT		31×78×68mm [1.22×3.07×2.68 inches] (without terminal block) (W×H×D) / 150g max (with cover : 180g max)		
	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℃.
＊3 Derating is required.
＊4 When two or more units are used,they may not comply with the harmonic attenuator. Please contact us for details.
＊5 Please contact us about safety approvals for the model with option.
＊6 Please contact us about dynamic load and input response.
＊7 Please contact us about class C.
＊ 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.