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Find the *Cosel PBA600F-24* at our website: *Click HERE*

PBA600F



Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
PBA600F-3R3	DC 120 - 350 AC 85 - 264	396	3.3V 120A
PBA600F-5	DC 120 - 350 AC 85 - 264	600	5V 120A
PBA600F-7R5	DC 120 - 350 AC 85 - 264	600	7.5V 80A
PBA600F-12	DC 120 - 350 AC 85 - 264	636	12V 53A
PBA600F-15	DC 120 - 350 AC 85 - 264	645	15V 43A
PBA600F-24	DC 120 - 350 AC 85 - 264	648	24V 27A (peak 31A)
PBA600F-36	DC 120 - 350 AC 85 - 264	648	36V 18A
PBA600F-48	DC 120 - 350 AC 85 - 264	624	48V 13A

Features

- Harmonic attenuator, PFC (Complies with IEC61000-3-2)
- Universal input (AC85-264V)
- Super small-size & light weight
- Making to high effective by synchronous rectification technology (PBA50F - 150F)
- High variety of options (PBA50F - 150F)
- Parallel operation and Parallel redandancy operation
- Fan alarm, Remote ON/OFF and other functions(PBA300F - 1500F)
- RoHS Compliant

Safety Agency Approvals

- Complies with DEN-AN
- UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178
- UL508 (PBA50F - 150F, -24, with cover),

EMI Compliance

- FCC-A
- CISPR22-A
- EN55011-A
- VCCI-A

CE Markings

- LVD and EMC directive

EMC Compliance

- EN61000-4-2
- EN61000-4-3
- EN61000-4-4
- EN61000-4-5
- EN61000-4-6
- EN61000-4-8
- EN61000-4-11

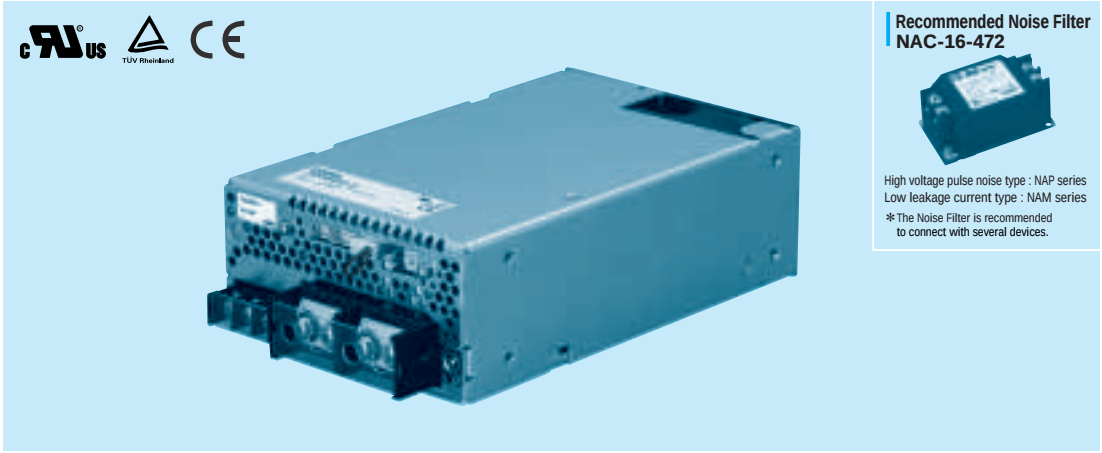
5 year warranty(refer to Instruction Manual)

COSEL **Unit type**

PBA600F

Ordering information

PB	A	600	F	-5	-□
①	②	③	④	⑤	⑧



Recommended Noise Filter
NAC-16-472

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

①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑧Optional
C :with Coating
G :Low leakage current
U :Operation stop voltage is set at a lower value
F1 :With Long-Life fan
F3 :Reverse air exhaust type
F4 :Low speed fan

Refer to instruction manual 7.1.

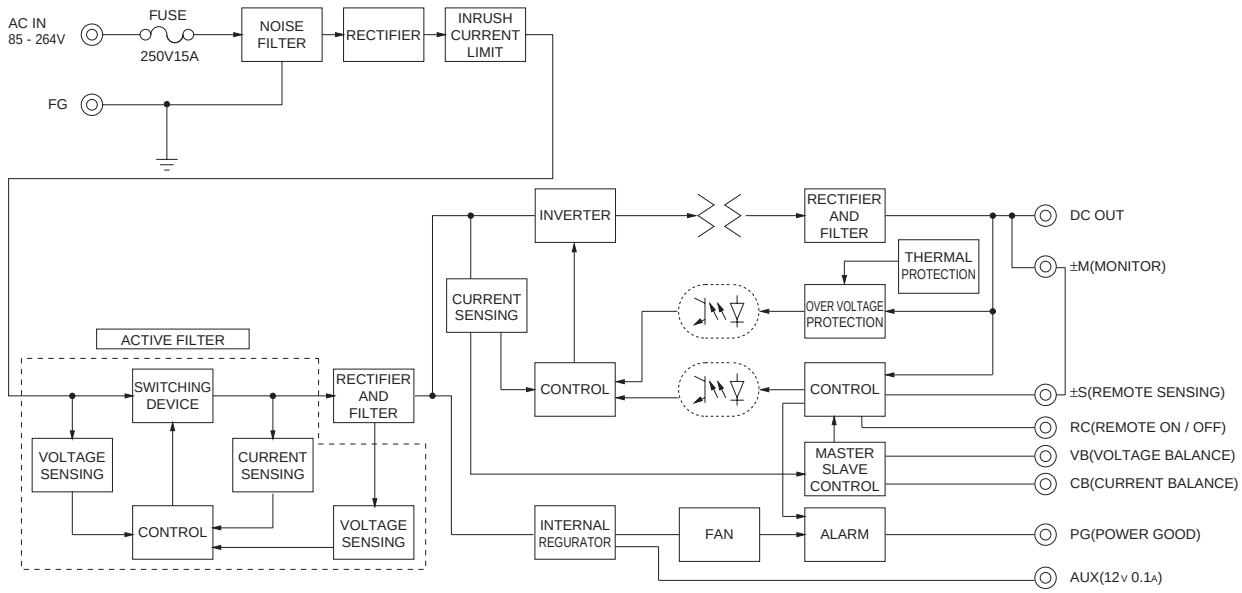
MODEL		PBA600F-3R3	PBA600F-5	PBA600F-7R5	PBA600F-12	PBA600F-15	PBA600F-24	PBA600F-36	PBA600F-48
MAX OUTPUT WATTAGE[W]		396	600	600	636	645	648	648	624
DC OUTPUT	ACIN 100V	3.3V 120A	5V 120A	7.5V 80A	12V 53A	15V 43A	24V 27A	36V 18A	48V 13A
	ACIN 200V ＊3	3.3V 120A	5V 120A	7.5V 80A	12V 53A	15V 43A	24V 27(31)A	36V 18A	48V 13A

SPECIFICATIONS

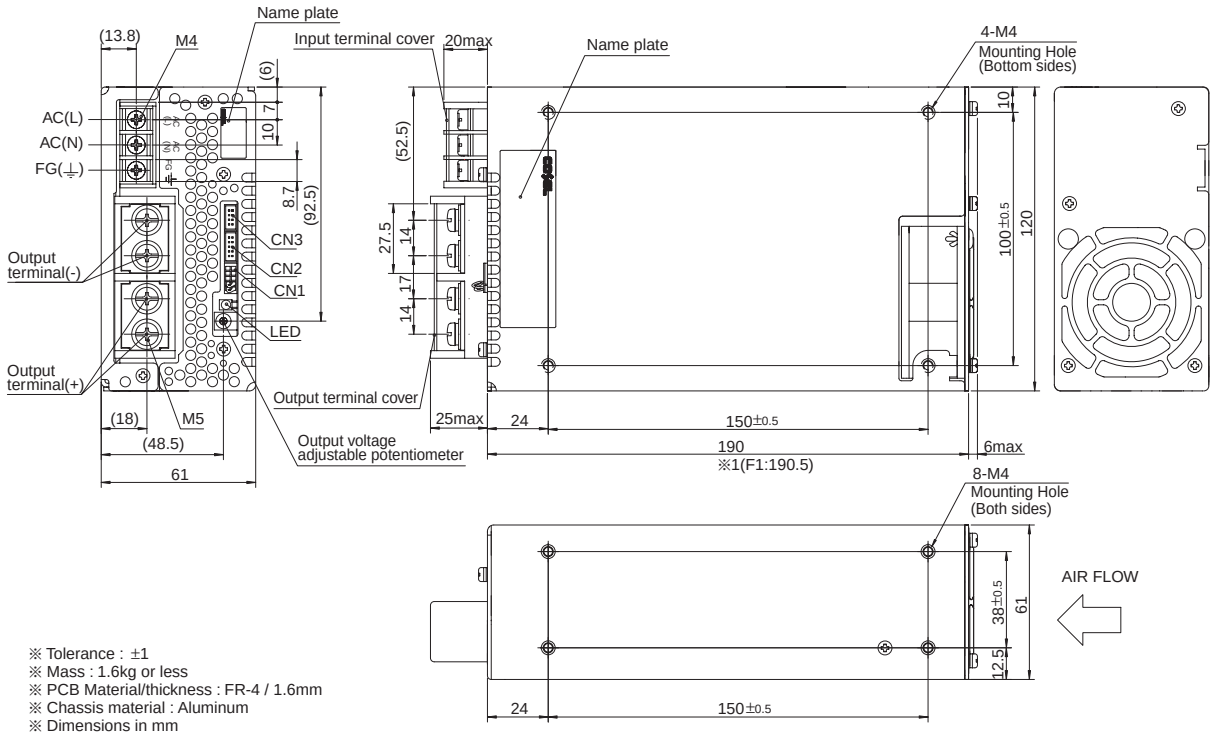
	MODEL		PBA600F-3R3	PBA600F-5	PBA600F-7R5	PBA600F-12	PBA600F-15	PBA600F-24	PBA600F-36	PBA600F-48
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC120 - 350 (AC50 or DC70 Please refer to the instruction manual 7. option ＊5)							
	CURRENT[A]	ACIN 100V	5.8typ	8.2typ						
		ACIN 200V	3typ	4.1typ						
	FREQUENCY[Hz]		50/60 (47 - 63)							
	EFFICIENCY[%]	ACIN 100V	70typ	75typ	76typ	79typ	79typ	81typ	82typ	81typ
		ACIN 200V	72typ	77typ	79typ	82typ	82typ	84typ	84typ	83typ
	POWER FACTOR	ACIN 100V	0.98typ (Io=100%)							
		ACIN 200V	0.95typ (Io=100%)							
	INRUSH CURRENT[A]	ACIN 100V	20/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)							
		ACIN 200V	40/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3 sec. to re-start)							
	LEAKAGE CURRENT[mA]		0.45/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1, DENAN)							
OUTPUT	VOLTAGE[V]		3.3	5	7.5	12	15	24	36	48
	CURRENT[A]	ACIN 100V	120	120	80	53	43	27	18	13
		ACIN 200V ＊3	120	120	80	53	43	27(31)	18	13
	LINE REGULATION[mV]		20max	20max	36max	48max	60max	96max	144max	192max
	LOAD REGULATION[mV]		40max	40max	60max	100max	120max	150max	150max	300max
	RIPPLE[mVp-p]	0 to +50℃ ＊1	80max	80max	120max	120max	120max	120max	150max	150max
		-20 - 0℃ ＊1	140max	140max	160max	160max	160max	160max	160max	400max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊1	120max	120max	150max	150max	150max	150max	200max	200max
		-20 - 0℃ ＊1	160max	160max	180max	180max	180max	180max	240max	500max
	TEMPERATURE REGULATION[mV]	0 to +50℃ ＊1	40max	50max	75max	120max	150max	240max	360max	480max
		-20 to +50℃ ＊1	60max	75max	120max	180max	180max	290max	440max	600max
	DRIFT[mV] ＊2		12max	20max	30max	48max	60max	96max	144max	192max
	START-UP TIME[ms]		400typ(ACIN 100/200V, Io=100%) ＊Start-up time is 500ms typ for less than 1minute of applying input again from turning off the input voltage.							
	HOLD-UP TIME[ms]		20typ (ACIN 100/200V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.64 - 3.96	3.96 - 6.00	5.25 - 8.25	8.25 - 13.20	10.50 - 16.50	16.50 - 26.40	25.20 - 39.60	38.40 - 56.00
	OUTPUT VOLTAGE SETTING[V]		3.30 - 3.40	5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	36.00 - 37.44	48.00 - 49.92
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rated current or 101% of peak current and recovers automatically							
	OVERVOLTAGE PROTECTION[V] ＊4		Vo+0.66 - 1.32	Vo+1.0 - 2.0	Vo+1.5 - 3.0	Vo+2.4 - 4.8	Vo+3.0 - 6.0	Vo+4.8 - 9.6	Vo+7.2 - 14.4	Vo+4.8 - 12.0
	OPERATING INDICATION		LED (Green)							
	REMOTE SENSING		Provided							
	REMOTE ON/OFF		Provided							
ISOLATION	INPUT-OUTPUT · RC		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 · RC · AUX-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)							
	OUTPUT-RC · AUX		AC100V 1minute, Cutoff current = 100mA, DC100V 50MΩmin (At Room Temperature)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-20 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) 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 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							
OTHERS	CASE SIZE/WEIGHT		120×61×190mm (without terminal block and screw) (W×H×D) /1.6kg max							
	COOLING METHOD		Forced cooling (internal fan)							

＊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 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual in detail.
＊4 Overvoltage protection circuit to follow to output voltage setting.
＊5 Derating is required.Consult us for details.
＊ A sound may occur from power supply at pulse loading.

Block diagram



External view



※ Tolerance : ±1
※ Mass : 1.6kg or less
※ PCB Material/thickness : FR-4 / 1.6mm
※ Chassis material : Aluminum
※ Dimensions in mm
※ Mounting torque : 1.2N · m(12.8kgf·cm)max
※ Screw tighting torque : M4 1.6N • m(16.9kgf • cm)max
M5 2.5N • m(24.5kgf • cm)max
※ The housing for the remote sensing unused is mounted on CN1
※1 F1(Optional):190.5
※ Please conect earth to FG terminal on the unit.

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