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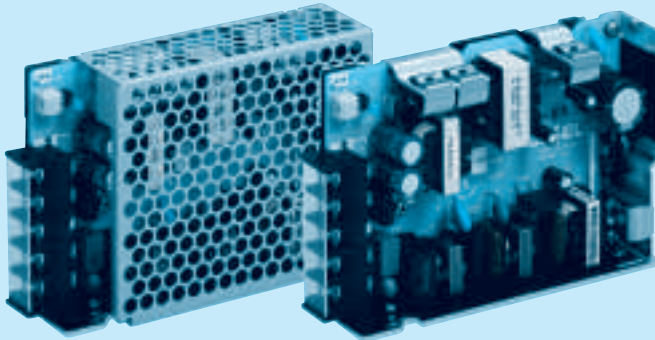
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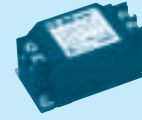
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Recommended Noise Filter NAC-06-472



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 Single output
③ Output wattage
④ Universal input
⑤ Output voltage
⑥ Optional
C : with Coating
G : Low leakage current
(0.15mA max / ACIN 240V)
E : Low leakage current
and EMI class A
(0.5mA max / ACIN 240V)
T : Vertical terminal block
J : Connector type
R : with Remote ON/OFF
N : with Cover
(Only 24V UL508 is acquired)
N1 : with DIN rail
V : Output voltage setting
potentiometer external-
ly

Cover is optional

MODEL	PBA50F-3R3	PBA50F-5	PBA50F-9	PBA50F-12	PBA50F-15	PBA50F-24	PBA50F-36	PBA50F-48
MAX OUTPUT WATTAGE[W]	33	50	50.4	51.6	52.5	52.8	50.4	52.8
DC OUTPUT	3.3V 10A	5V 10A	9V 5.6A	12V 4.3A	15V 3.5A	24V 2.2A	36V 1.4A	48V 1.1A

SPECIFICATIONS

	MODEL	PBA50F-3R3	PBA50F-5	PBA50F-9	PBA50F-12	PBA50F-15	PBA50F-24	PBA50F-36	PBA50F-48								
INPUT	VOLTAGE[V]	AC85 - 264 1ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4)															
	CURRENT[A]	ACIN 100V	0.5typ	0.7typ													
		ACIN 200V	0.3typ	0.4typ													
	FREQUENCY[Hz]	50/60 (47 - 63)															
	EFFICIENCY[%]	ACIN 100V	75typ	80typ	79typ	80typ	81typ	82typ	83typ								
		ACIN 200V	76typ	82typ	81typ	82typ	83typ	84typ	85typ								
	POWER FACTOR(ιo=100%)	ACIN 100V	0.98typ	0.99typ													
		ACIN 200V	0.87typ	0.93typ													
INRUSH CURRENT[A]	ACIN 100V	15typ (ιo=100%) (At cold start)															
	ACIN 200V	30typ (ιo=100%) (At cold start)															
LEAKAGE CURRENT[ma]	0.4/0.75max (ACIN 100V/240V 60Hz, ιo=100%, According to IEC60950-1.DENAN)																
OUTPUT	VOLTAGE[V]	3.3	5	9	12	15	24	36	48								
	CURRENT[A]	10	10	5.6	4.3	3.5	2.2	1.4	1.1								
	LINE REGULATION[mV]	20max	20max	36max	48max	60max	96max	144max	192max								
	LOAD REGULATION[mV]	40max	40max	100max	100max	120max	150max	240max	240max								
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	80max	120max	120max	120max	150max	150max								
		-10 - 0℃ *1	140max	140max	160max	160max	160max	200max	200max								
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	250max	250max								
		-10 - 0℃ *1	160max	160max	180max	180max	180max	300max	300max								
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	90max	120max	150max	240max	360max								
		-10 to +50℃	60max	60max	120max	150max	180max	290max	450max								
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	144max								
START-UP TIME[ms]	350typ(ACIN 100V, ιo=100%)																
HOLD-UP TIME[ms]	20typ (ACIN 100V, ιo=100%)																
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.85 - 3.63		4.00 - 5.50		7.50 - 10.0		10.0 - 13.2		13.2 - 18.0		19.2 - 27.0		28.8 - 39.6		39.0 - 53.0		
OUTPUT VOLTAGE SETTING[V]	3.30 - 3.40		5.00 - 5.15		9.00 - 9.36		12.00 - 12.48		15.00 - 15.60		24.00 - 24.96		35.00 - 37.44		48.00 - 49.92		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rated current and recovers automatically															
	OVERVOLTAGE PROTECTION[V]	4.00 - 5.25		5.75 - 7.00		11.5 - 14.0		15.0 - 18.0		20.0 - 25.0		30.0 - 37.0		43.0 - 50.0		58.0 - 65.0	
	OPERATING INDICATION	LED (Green)															
	REMOTE ON/OFF	Optional (Required external power source)															
ISOLATION	INPUT-OUTPUT · RC	*3	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-FG	*3	AC500V 1minute, Cutoff current = 100mA, 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) 3,000m (10,000feet) max															
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis															
	IMPACT	196.1m/s ² (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	31 x 82 x 120mm (without terminal block) (W x H x D) / 280g max (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 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and FG.
*4 Derating is required.

- * 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.