

PBA150F

PB

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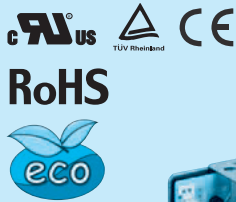
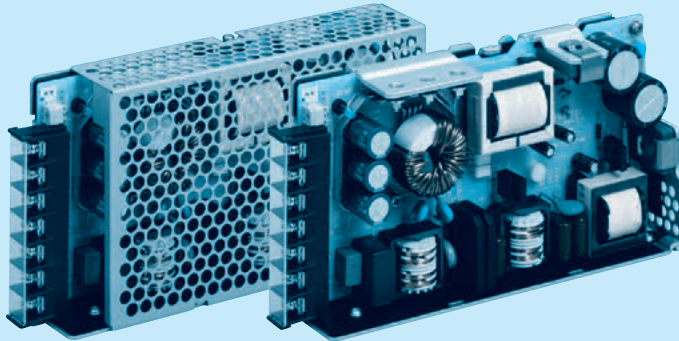
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Example recommended EMI/EMC filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
* A higher current rating EMI/EMC filter
may be recommended in view of the
other devices that could be connected
in parallel with the power supply.

- ① Series name
② Single output
③ Output wattage
④ Universal input
⑤ Output voltage
⑥ Optional *5
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
(Only -12, -15, -24, -36, -48)
R : with Remote ON/OFF
N : with Cover
(Only 24V UL508 is acquired)
NI : with DIN rail and Cover
V : Output voltage setting
potentiometer external-ly

Cover is optional

* Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	PBA150F-3R3	PBA150F-5	PBA150F-9	PBA150F-12	PBA150F-15	PBA150F-24	PBA150F-36	PBA150F-48
MAX OUTPUT WATTAGE[W]	99	150	150.3	156	150	156	154.8	158.4
DC OUTPUT	3.3V 30A	5V 30A	9V 16.7A	12V 13A	15V 10A	24V 6.5A	36V 4.3A	48V 3.3A

SPECIFICATIONS

	MODEL	PBA150F-3R3	PBA150F-5	PBA150F-9	PBA150F-12	PBA150F-15	PBA150F-24	PBA150F-36	PBA150F-48	
INPUT	VOLTAGE[V]	AC85 - 264 1 ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *4)								
	CURRENT[A]	ACIN 100V ACIN 200V	1.3typ 0.7typ	2.0typ 1.0typ						
	FREQUENCY[Hz]	50/60 (47 - 63)								
	EFFICIENCY[%]	ACIN 100V ACIN 200V	80typ 82typ	83typ 86typ	82typ 85typ	83typ 86typ	84typ 87typ	85typ 88typ	85typ 88typ	
	POWER FACTOR(ℓo=100%)	ACIN 100V ACIN 200V	0.98typ 0.87typ	0.99typ 0.93typ						
	INRUSH CURRENT[A]	ACIN 100V ACIN 200V	20typ (ℓo=100%) (At cold start) 40typ (ℓo=100%) (At cold start)							
	LEAKAGE CURRENT[ma]	0.4/0.75max (ACIN 100V/240V 60Hz, ℓo=100%, According to IEC60950-1.DENAN)								
	OUTPUT	VOLTAGE[V]	3.3	5	9	12	15	24	36	48
CURRENT[A]		30	30	16.7	13	10	6.5	4.3	3.3	
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 -10 - 0℃ *1	80max 140max	80max 140max	120max 160max	120max 160max	120max 160max	150max 200max	150max 200max	
RIPPLE NOISE[mVp-p]		0 to +50℃ *1 -10 - 0℃ *1	120max 160max	120max 160max	150max 180max	150max 180max	150max 180max	250max 300max	250max 300max	
TEMPERATURE REGULATION[mV]		0 to +50℃ -10 to +50℃	50max 60max	50max 60max	90max 120max	120max 150max	150max 180max	240max 290max	360max 450max	
DRIFT[mV]		*2	20max	20max	36max	48max	60max	96max	144max	
START-UP TIME[ms]		350typ(ACIN 100V, ℓo=100%)								
HOLD-UP TIME[ms]		20typ (ACIN 100V, ℓo=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 36.00 - 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 SENSING	Optional (Only -3R3, -5 Option -K)								
ISOLATION	REMOTE ON/OFF	Optional (Required external power source)								
	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)							
ENVIRONMENT	OUTPUT · RC-FG	*3	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)							
	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								
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s² (20G), 11ms, once each X, Y and Z axis								
	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								
OTHERS	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 *6								
	CASE SIZE/WEIGHT	34×93×168mm [1.34×3.66×6.61 inches] (without terminal block) (W×H×D) / 560g max (with cover : 630g 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°C.

*3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and FG.

*4 Derating is required.

*5 Please contact us about safety approvals for the model with option.

*6 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.

