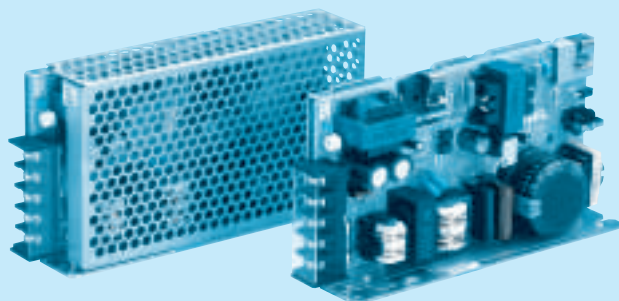


PAA50F

PAA 50 F -5 -□

① ② ③ ④ ⑤

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 Output wattage
③ Universal input
④ Output voltage
⑤ Optional
C : with Coating
G : Low leakage current
J : Connector type
N : with Cover
R : with Remote ON/OFF

MODEL	PAA50F-3	PAA50F-5	PAA50F-12	PAA50F-15	PAA50F-24	PAA50F-48
MAX OUTPUT WATTAGE[W]	30	50	51.6	52.5	52.8	52.8
DC OUTPUT	3V 10A	5V 10A	12V 4.3A	15V 3.5A	24V 2.2A	48V 1.1A

SPECIFICATIONS

	MODEL	PAA50F-3	PAA50F-5	PAA50F-12	PAA50F-15	PAA50F-24	PAA50F-48		
INPUT	VOLTAGE[V]		AC85 - 264 1 φ						
	CURRENT[A]	ACIN 100V	0.5typ	0.8typ					
		ACIN 200V	0.25typ	0.4typ					
	FREQUENCY[Hz]		50/60 (47 - 63)						
	EFFICIENCY[%]		67typ	74typ	77typ	78typ	80typ	80typ	
	POWER FACTOR	ACIN 100V	0.95typ (Io=100%)						
		ACIN 100V	15typ (Io=100%)						
	ACIN 200V	15typ (Io=100%)							
	LEAKAGE CURRENT[ma]		0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)						
OUTPUT	VOLTAGE[V]		3	5	12	15	24	48	
	CURRENT[A]		10	10	4.3	3.5	2.2	1.1	
	LINE REGULATION[mV]		20max	20max	48max	60max	96max	192max	
	LOAD REGULATION[mV]		40max	40max	100max	120max	150max	240max	
	RIPPLE[mVp-p]	0 to +50℃ ※1	80max	80max	120max	120max	120max	150max	
		-10 - 0℃ ※1	140max	140max	160max	160max	160max	200max	
	RIPPLE NOISE[mVp-p]	0 to +50℃ ※1	120max	120max	150max	150max	150max	250max	
		-10 - 0℃ ※1	160max	160max	180max	180max	180max	300max	
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	120max	150max	240max	480max	
		-10 to +50℃	60max	60max	150max	180max	290max	600max	
	DRIFT[mV]		※2	20max	20max	48max	60max	96max	192max
	START-UP TIME[ms]		500max (ACIN 85V, Io=100%)						
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%) 100typ (ACIN 200V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6		±10%				
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically						
	OVERVOLTAGE PROTECTION		4.00 - 5.25V	Works at 115 - 140% of rating					
	OPERATING INDICATION		LED (Green)						
	REMOTE ON/OFF		Optional (Refer to Instruction Manual)						
ISOLATION	INPUT-OUTPUT · RC		※3	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
	INPUT-FG			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
	OUTPUT · RC-FG		※3	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)					
	OUTPUT-RC		※3	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +65℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 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/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		UL60950-1, EN60950-1, EN50178, CSA C22.2 No.234 Complies with DEN-AN and IEC60950-1						
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B						
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2						
OTHERS	CASE SIZE/WEIGHT		37×85×159mm (without terminal block) (W×H×D) /400g max (without cover)						
	COOLING METHOD		Convection						

*1 According to 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).

*2 Drift is change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*3 Applicable when Remote ON/OFF (optional) is added.

* Derating is required when operated with case cover.

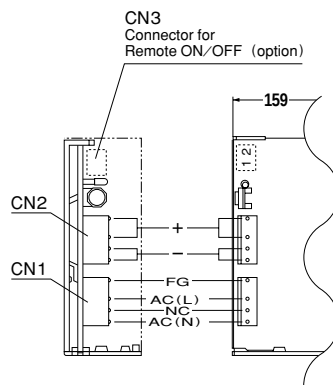
Distribution:

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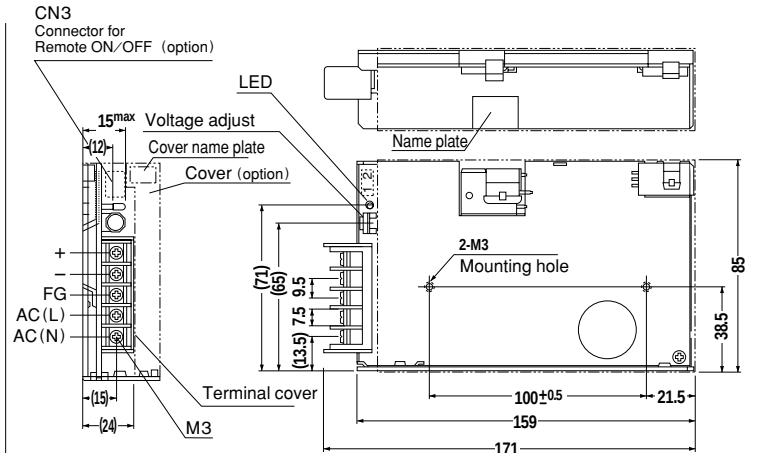
External view



I/O Connector	Mating Connector	Terminal
CN1 5289-4A	5199-04	Chain: 5194PBT Loose: 5194PBTL
CN2 5277-4A	5196-04	Chain: 5194PBT Loose: 5194PBTL

※Maximum 5A per pin of CN2 can be applied.

(Mfr : Molex)



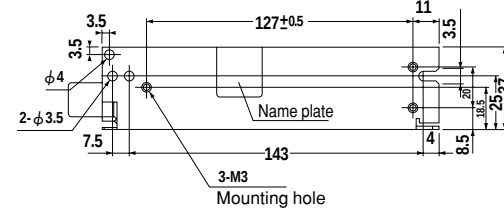
Connector type

CN3 Option (Mfr : J.S.T.)

Pin No.	Contents
1	RC(+)
2	RC(-)

Barrier strip type

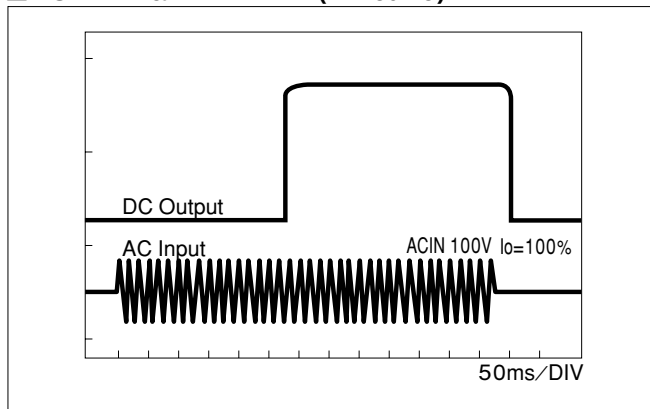
Model B2B-XH-A
Mating Connector (Terminal)
XHP-2
(BXH-001T-P0.6
or SXH-001T-P0.6)



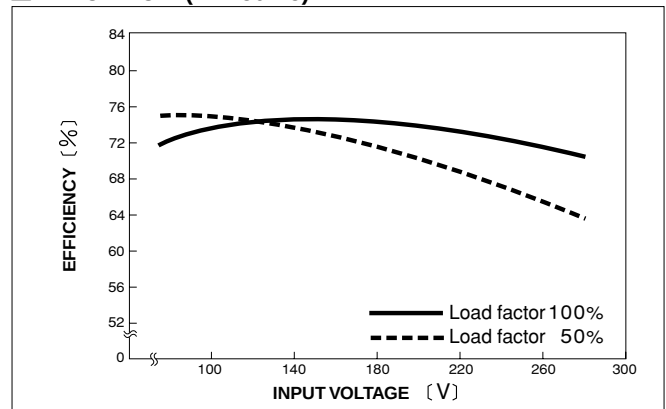
※Mounting torque:0.49N・m (5.0kgf・cm) max

Performance data

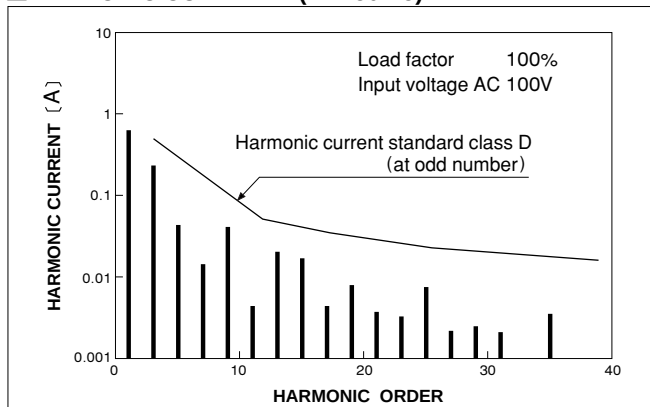
■ RISE TIME & FALL TIME (PAA50F-5)



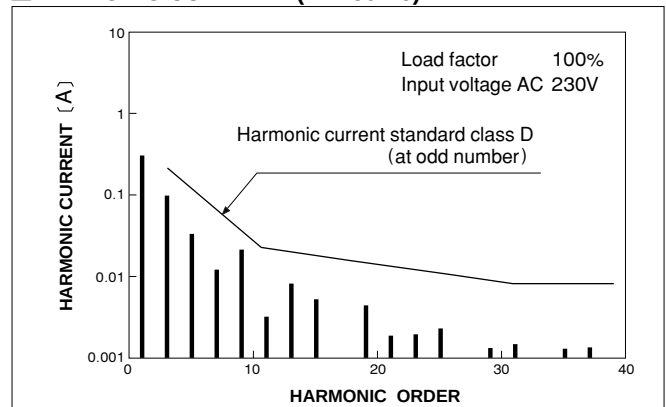
■EFFICIENCY (PAA50F-5)



■ HARMONIC CURRENT (PAA50F-5)



■ HARMONIC CURRENT (PAA50F-5)



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