



1)Series name 2 Dual output

3Output wattage 4Universal input

Output voltage
 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 N1 :with DIN rail

V :Output voltage setting potentiometer external-

ı	Recommended Noise Filter
Į	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.



Cover is optional

MODEL		PBW50F-5	PBW50F-12	PBW50F-15	
MAX OUTPUT WATTAGE[W] *6		30	50.4	51	
	VOLTAGE[V] *8	±5 (+10)	±12 (+24)	±15 (+30)	
DC OUTPUT	CURRENT1[A]	3.0	2.1	1.7	
	CURRENT2[A] *6	4.0	2.7	2.4	

SPECIFICATIONS

	MODEL		PBW50F-5	PBW50F-12		PBW50F-15			
	VOLTAGE[V]		AC85 - 264 1 ϕ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage $*3$)						
			0.45typ (CURRENT1)	0.70typ (CURRENT1)					
	CURRENT[A]	ACIN 200V	0.30typ (CURRENT1)	0.40typ (CURRENT1)					
	FREQUENCY[Hz]		50/60 (47 - 63)						
		ACIN 100V	76typ (CURRENT1) 81typ (CURRENT1) 81typ (CURRENT1)						
INPUT	EFFICIENCY[%]		77typ (CURRENT1)	83typ (CURRENT1)		83typ (CURRENT1)			
0.	POWER FACTOR(Io=100%) INRUSH CURRENT[A]	ACIN 100V		0.99typ					
		ACIN 200V		0.93typ					
		ACIN 100V	7,	0.00typ					
		ACIN 200V							
	LEAKAGE CURRENT[r		0.40/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)						
	VOLTAGE[V]		0.40/0.75max (ACIN 1007/240V 60Hz, 10=100%, According to IEC60950-1, DENAN) ±5						
	CURRENT1[A]		3.0 / 3.0	2.1	/ (+24V reletence number)	1.7	/ 1.7		
			4.0 /-	2.7	/ -	2.4	/ 1.7		
	CURRENT2[A]	*6			<u>'</u>		<u>'</u>		
	LINE REGULATION[m\		20max / 36max	48max	/ 96max	60max	/ 96max		
	LOAD REGULATION 1		250max / 100max	600max	/ 150max	600max	/ 150max		
	LOAD REGULATION 2		500max /-	750max	/ -	750max	/-		
	RIPPLE[mVp-p]	0 to +50°C *1	80max / 240max	120max	/ 240max	120max	/ 240max		
		-10 - 0℃ *1	140max / 320max	160max	/ 320max	160max	/ 320max		
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max / 300max	150max	/ 300max	150max	/ 300max		
		-10 - 0℃ *1	160max / 360max	180max	/ 360max	180max	/ 360max		
	TEMPERATURE REGULATION[mV]	0 to +50℃		120max		150max			
	- 10 to		60max	150max		180max			
	DRIFT[mV] *2		20max	48max		60max			
	START-UP TIME[ms]		350typ(ACIN 100V, Io=100%)						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT	T RANGE[V]	4.99 - 6.00 (+V and -V are simultaneously adjusted)	9.60 - 13.2 (+V and -V are	simultaneously adjusted)	sted) 13.2 - 16.5 (+V and -V are simultaneously adjusted			
	OUTPUT VOLTAGE SET	TING[V]	4.99 - 5.30 (+V and -V CURRENT1)	11.5 - 12.5 (+V and	V CURRENT1)	14.4 - 15.6 (+V and -	V CURRENT1)		
	OVERCURRENT PROT	ECTION	Works over 105% of rated current and recovers automatically						
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	[V]NOIT	6.90 - 10.0	16.8 - 24.0 20.0 - 29.0		20.0 - 29.0			
OTHERS	OPERATING INDICATION	ON	LED (Green)	·					
	REMOTE ON/OFF		Optional (Required external power source)						
	INPUT-OUTPUT · RC	*7	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT · RC-FG	*7	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)						
	OPERATING TEMP.,HUMID.AND	ALTITUDE							
	STORAGE TEMP.,HUMID.AND	ALTITUDE							
ENVIRONMENT	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						
	AGENCY APPROVALS (At only	v AC input)	UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN						
SAFETY AND	CONDUCTED NOISE	,	Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B						
NOISE	CE MARKING		Low Voltage Directive, EMC Directive						
REGULATIONS	HARMONIC ATTENUAT	TOR	Complies with IEC61000-3-2						
	CASE SIZE/WEIGHT		31 x 82 x 120mm (without terminal block) (W x H x D) / 280q max (without cover)						
OTHERS	COOLING METHOD		Convection						
	SOCING WILTHOU		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 Derating is required.
- *4 Figures for 0 to rated current 1.The current not measured
- side is fixed.
- *5 Figures for 0 to rated current 2.The current not measured
- *6 The sum of +power -power must be less than output power.
- *7 RC is applied to remote ON/OFF option. RC is isolated with input/output and FG.
- \$8 $\pm 5, \pm 12, \pm 15$ can be used as +10,+24 and +30.
- 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.