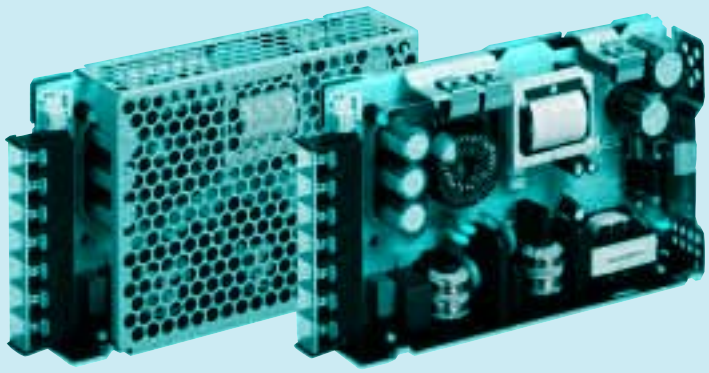
PBA100F

Ordering information

PBA 100 F -5 -○

1 2 3 4 5



1 Series name
2 Output wattage
3 Universal input
4 Output voltage
5 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 (Only -24, -36, -48)
R :with Remote ON/OFF
N :with Cover (Only 24V UL508 pending)
N1 :with DIN rail
V :Output voltage setting potentiometer externally

Specification is changed at option. Please consult us details.

MODEL	PBA100F-3R3	PBA100F-5	PBA100F-9	PBA100F-12	PBA100F-15	PBA100F-24	PBA100F-36	PBA100F-48
MAX OUTPUT WATTAGE[W]	66	100	94.5	102	105	108	100.8	100.8
DC OUTPUT	3.3V 20A	5V 20A	9V 10.5A	12V 8.5A	15V 7A	24V 4.5A	36V 2.8A	48V 2.1A

SPECIFICATIONS

	MODEL		PBA100F-3R3	PBA100F-5	PBA100F-9	PBA100F-12	PBA100F-15	PBA100F-24	PBA100F-36	PBA100F-48
INPUT	VOLTAGE[V]		AC85 - 264 1F or DC120 - 370 (AC70 or DC100 optionally available *4)							
	CURRENT[A]	ACIN 100V	0.9typ	1.3typ						
		ACIN 200V	0.5typ	0.7typ						
	FREQUENCY[Hz]		50/60 (47 - 63)							
	EFFICIENCY[%]	ACIN 100V	77typ	81typ	80typ	81typ	83typ	84typ	84typ	84typ
		ACIN 200V	79typ	84typ	82typ	83typ	86typ	86typ	86typ	86typ
	POWER FACTOR(Io=100%)	ACIN 100V	0.98typ	0.99typ						
		ACIN 200V	0.87typ	0.93typ						
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%) (At cold start)							
		ACIN 200V	40typ (Io=100%) (At cold start)							
	LEAKAGE CURRENT[mA]		0.4/0.75max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1)							
OUTPUT	VOLTAGE[V]		3.3	5	9	12	15	24	36	48
	CURRENT[A]		20	20	10.5	8.5	7	4.5	2.8	2.1
	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 +50C *1	80max	80max	120max	120max	120max	120max	150max	150max
		-10 - 0C *1	140max	140max	160max	160max	160max	160max	200max	200max
	RIPPLE NOISE[mVp-p]	0 to +50C *1	120max	120max	150max	150max	150max	150max	250max	250max
		-10 - 0C *1	160max	160max	180max	180max	180max	180max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50C	50max	50max	90max	120max	150max	240max	360max	480max
		-10 to +50C	60max	60max	120max	150max	180max	290max	450max	600max
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	96max	144max	192max
	START-UP TIME[ms]		350typ(ACIN 100V, Io=100%)							
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.60	4.00 - 5.50	7.50 - 10.0	10.0 - 13.2	13.2 - 18.0	19.2 - 27.0	28.8 - 39.0	39.0 - 53.0
	OUTPUT VOLTAGE SETTING[V]		3.20 - 3.40	4.90 - 5.20	8.70 - 9.30	11.5 - 12.5	14.5 - 15.5	23.5 - 24.5	35.5 - 36.5	47.0 - 49.0
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)							
	REMOTE ON/OFF		Optional (Required external power source)							
ISOLATION	INPUT-OUTPUT—RC	*3	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MWmin (At Room Temperature)							
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MWmin (At Room Temperature)							
	OUTPUT—RC-FG	*3	AC500V 1minute, Cutoff current = 100mA, DC500V 50MWmin (At Room Temperature)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +71C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75C, 20 - 90%RH (Non condensing) 3,000m (10,000feet) max							
	VIBRATION		19.6m/s^2 (2G), 10 - 55Hz, 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, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN (At only AC input)							
	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		32X93X147mm (without terminal block) (WXHXD) / 440g 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 25C.
*3 Applicable when Remote ON/OFF(optional) is added. RC is insulated with input, output and FG.
* 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.
*4 Derating is required.Consult us for details.