

# PBA300F

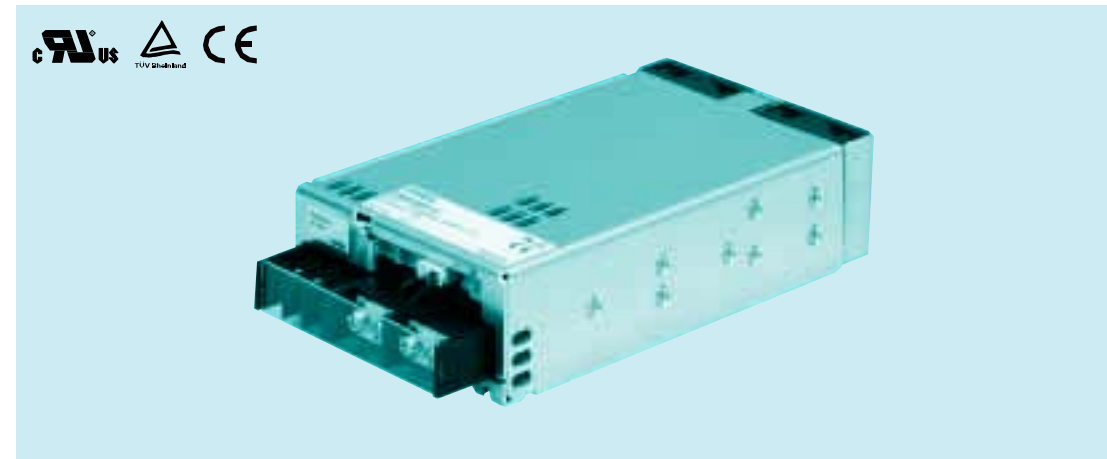
## Ordering information

**PBA 300 F -5 -O**

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
  - U :Operation stop voltage is set at a lower value
  - F3 :Reverse air exhaust type
  - F4 :Low speed fan

Refer to instruction manual 7.1



| MODEL                 | PBA300F-3R3             | PBA300F-5 | PBA300F-7R5 | PBA300F-12 | PBA300F-15 | PBA300F-24 | PBA300F-36    | PBA300F-48 |
|-----------------------|-------------------------|-----------|-------------|------------|------------|------------|---------------|------------|
| MAX OUTPUT WATTAGE[W] | 198                     | 300       | 300         | 324        | 330        | 336        | 324           | 336        |
| DC OUTPUT             | ACIN 100V               | 3.3V 60A  | 5V 60A      | 7.5V 40A   | 12V 27A    | 15V 22A    | 24V 14A       | 36V 9A     |
|                       | ACIN 200V <sup>*3</sup> | 3.3V 60A  | 5V 60A      | 7.5V 40A   | 12V 27A    | 15V 22A    | 24V 14(16.5)A | 36V 9A     |
|                       |                         |           |             |            |            |            |               | 48V 7A     |

## SPECIFICATIONS

| MODEL                              | PBA300F-3R3   | PBA300F-5   | PBA300F-7R5  | PBA300F-12       | PBA300F-15       | PBA300F-24       | PBA300F-36       | PBA300F-48       |                  |                  |
|------------------------------------|---|---|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| INPUT                              | VOLTAGE[V]  | AC85 - 264 1 <sup>F</sup> or DC120 - 350 (AC50 or DC70 optionally available <sup>*4</sup> )   |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | CURRENT[A]  | ACIN 100V<br>ACIN 200V  | 3typ<br>1.6typ   | 4.1typ<br>2typ   |                  |                  |                  |                  |                  |                  |
|                                    | FREQUENCY[Hz]   | 50/60 (47 - 63)   |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | EFFICIENCY[%]   | ACIN 100V<br>ACIN 200V  | 68typ<br>71typ   | 74typ<br>77typ   | 76typ<br>79typ   | 78typ<br>81typ   | 78typ<br>81typ   | 79typ<br>82typ   | 81typ<br>84typ   |                  |
|                                    | POWER FACTOR  | ACIN 100V<br>ACIN 200V  | 0.98typ (lo=100%)<br>0.95typ (lo=100%)   |                  |                  |                  |                  |                  |                  |                  |
|                                    | INRUSH CURRENT[A]   | ACIN 100V<br>ACIN 200V  | 20/40typ (lo=100%) (Primary inrush current /Secondary inrush current) (More then 3 sec. to re-start)<br>40/40typ (lo=100%) (Primary inrush current /Secondary inrush current) (More then 3 sec. to re-start) |                  |                  |                  |                  |                  |                  |                  |
| LEAKAGE CURRENT[mA]                | 0.45/0.75max (ACIN 100V/240V 60Hz, lo=100%, According to IEC60950-1)                                      |   |  |                  |                  |                  |                  |                  |                  |                  |
| OUTPUT                             | VOLTAGE[V]  | 3.3   | 5  | 7.5              | 12               | 15               | 24               | 36               | 48               |                  |
|                                    | CURRENT[A]  | ACIN 100V<br>ACIN 200V <sup>*3</sup>  | 60<br>60   | 60<br>60         | 40<br>40         | 27<br>27         | 22<br>22         | 14<br>14(16.5)   | 9<br>9           | 7<br>7           |
|                                    | LINE REGULATION[mV]   | 20max   |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | LOAD REGULATION[mV]   | 40max   |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | RIPPLE[mVp-p]   | 0 to +50C <sup>*1</sup><br>-20 - 0C <sup>*1</sup>   | 80max<br>140max  | 80max<br>140max  | 120max<br>160max | 120max<br>160max | 120max<br>160max | 120max<br>160max | 150max<br>160max | 300max<br>400max |
|                                    | RIPPLE NOISE[mVp-p]   | 0 to +50C <sup>*1</sup><br>-20 - 0C <sup>*1</sup>   | 120max<br>160max   | 120max<br>160max | 150max<br>180max | 150max<br>180max | 150max<br>180max | 150max<br>180max | 200max<br>240max | 200max<br>500max |
|                                    | TEMPERATURE REGULATION[mV]  | 0 to +50C <sup>*1</sup><br>-20 to +50C <sup>*1</sup>  | 40max<br>60max   | 50max<br>75max   | 75max<br>120max  | 120max<br>180max | 150max<br>180max | 240max<br>290max | 360max<br>440max | 480max<br>600max |
|                                    | DRIFT[mV]   | <sup>*2</sup>   | 12max  | 20max            | 30max            | 48max            | 60max            | 96max            | 144max           | 192max           |
|                                    | START-UP TIME[ms]   | 300typ(ACIN 100/200V, lo=100%) Start-up time is 500ms typ for less than 1minute of applying input again from turning off the input voltage. |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | HOLD-UP TIME[ms]  | 20typ (ACIN 100/200V, lo=100%)  |  |                  |                  |                  |                  |                  |                  |                  |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 2.64 - 3.96 3.96 - 6.00 5.25 - 8.25 8.25 - 13.20 10.50 - 16.50 16.50 - 26.40 25.20 - 39.60 38.40 - 56.00  |   |  |                  |                  |                  |                  |                  |                  |                  |
| OUTPUT VOLTAGE SETTING[V]          | 3.30 - 3.40 5.00 - 5.15 7.50 - 7.80 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 or 101% of peak current and recovers automatically   |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | OVERVOLTAGE PROTECTION[V]   | 4.3 - 6.3   | 6.5 - 8.0  | 9.0 - 11.6       | 14.4 - 18.6      | 18.0 - 23.3      | 28.8 - 37.2      | 43.2 - 54.0      | 57.6 - 80.0      |                  |
|                                    | OPERATING INDICATION  | LED (Green)   |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | REMOTE SENSING<br>REMOTE ON/OFF   | Provided<br>Provided  |  |                  |                  |                  |                  |                  |                  |                  |
| ISOLATION                          | INPUT-OUTPUT-RC   | 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-AUX-FG  | AC500V 1minute. Cutoff current = 100mA. DC500V 50MWmin (At Room Temperature)  |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | OUTPUT-RC-AUX   | AC100V 1minute. Cutoff current = 100mA. DC100V 50MWmin (At Room Temperature)  |  |                  |                  |                  |                  |                  |                  |                  |
| ENVIRONMENT                        | OPERATING TEMP.HUMID.AND ALTITUDE   | -20 to +71C, 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 <sup>2</sup> (2G), 10 - 55Hz, 3minutes period, 60minutes each along X, Y and Z axis   |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | IMPACT  | 196.1m/s <sup>2</sup> (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<br>HARMONIC ATTENUATOR   | Low Voltage Directive, EMC Directive<br>Complies with IEC61000-3-2  |  |                  |                  |                  |                  |                  |                  |                  |
| OTHERS                             | CASE SIZE/WEIGHT  | 102X42X170mm (without terminal block and screw) (WXHXD) /1.0kg max  |  |                  |                  |                  |                  |                  |                  |                  |
|                                    | COOLING METHOD  | Forced cooling (internal fan)   |  |                  |                  |                  |                  |                  |                  |                  |

- \*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 () means peak current. Peak loading for 10s. And Duty 35% max, refer to Instruction manual in detail.
- \*4 Derating is required.Consult us for details.
- \* A sound may occur from power supply at pulse loading.