

DPF1000

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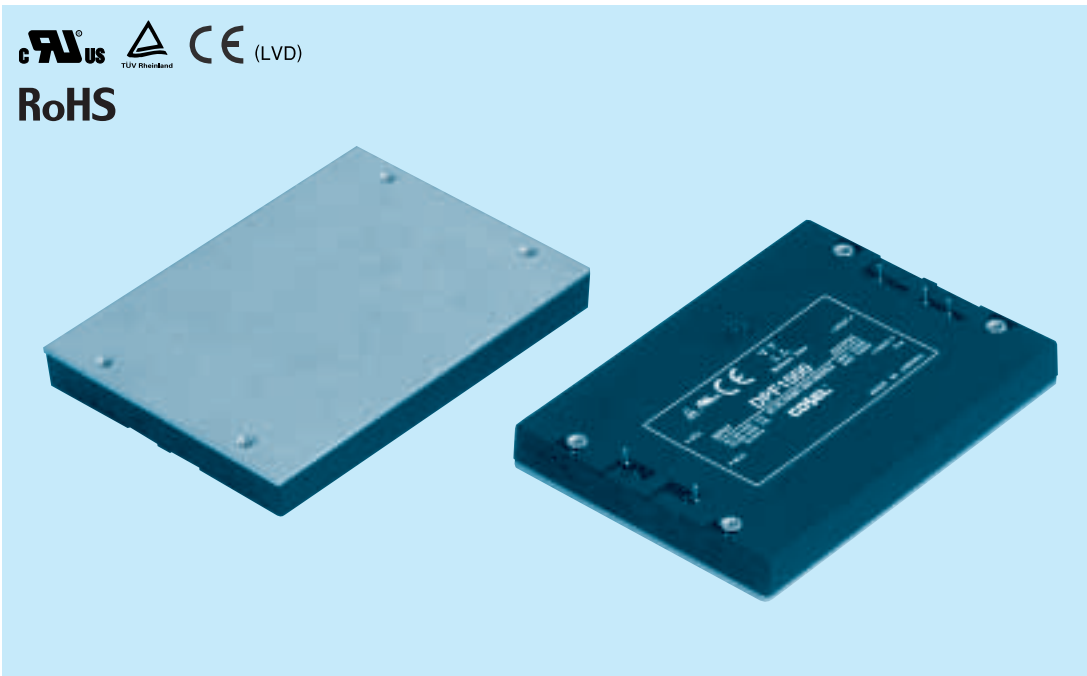
①

②



RoHS

① Series name
② Output wattage



| | | |
|-----------------------|------------|-------------|
| MODEL | DPF1000 | |
| AC INPUT[V] | AC85 - 264 | AC170 - 264 |
| MAX OUTPUT WATTAGE[W] | 1,000 | 1,500 |
| DC OUTPUT VOLTAGE[V] | DC360 | |

SPECIFICATIONS

| | MODEL | DPF1000 |
|-------------------------------|---|---|
| INPUT | VOLTAGE[V] | AC85 - 264 1 ϕ AC170 - 264 1 ϕ |
| | POWER FACTOR CORRECTION RANGE[V] | AC85 - 255 1 ϕ |
| | CURRENT[A] | 11.5typ (ACIN 100V) 8.5typ (ACIN 200V) |
| | FREQUENCY[Hz] | 50/60 (47 - 63) |
| | INRUSH CURRENT[A] | Limited by external resistance |
| | EFFICIENCY[%] | 90typ (ACIN 100V) 95typ (ACIN 200V) |
| | POWER FACTOR | 0.98typ (ACIN 100V) 0.95typ (ACIN 200V) |
| | LEAKAGE CURRENT[ma] | 0.75max (60Hz, According to IEC60950 and DEN-AN) |
| OUTPUT | WATTAGE[W] *1 | 1,000 1,500 |
| | VOLTAGE[V] *2 | DC360 |
| | VOLTAGE ACCURACY[V] *3 | ± 20 |
| PROTECTION CIRCUIT AND OTHERS | OVERVOLTAGE PROTECTION[V] | DC400 - 450 The power factor corrector function stops |
| | IOG | Inverter operation monitoring, Open-collector output, Maximum sink current 10mA, Maximum allowance voltage 35V |
| | ENA | Enable signal, Open-collector output, Maximum sink current 10mA, Maximum allowance voltage 35V |
| | AUX | Auxiliary power supply for external signal, Output voltage:6.5 - 8.5V maximum, Output current:10mA |
| | OTHERS | Parallel operation possible (Current balancing function), N+1 redundant operation possible, Thermal protection |
| ISOLATION | INPUT-OUTPUT | Non isolated |
| | INPUT, OUTPUT-FG | AC3.000V 1minute Cutoff current = 10mA, DC500V, 50M Ω min (20 \pm 15 $^{\circ}$ C) |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE *4 | -20 to +85 $^{\circ}$ C (Aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max |
| | STORAGE TEMP., HUMID. AND ALTITUDE | -40 to +85 $^{\circ}$ C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max |
| | VIBRATION | 10 - 55Hz, 49.0m/s 2 (5G), 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 | AGENCY APPROVALS | UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 |
| | HARMONIC ATTENUATOR | Complies with IEC61000-3-2 |
| OTHERS | CASE SIZE/WEIGHT | 118.6 \times 12.7 \times 85mm (W \times H \times D) /200g max |
| | COOLING METHOD | Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink) |

*1 Refer to Input voltage derating.

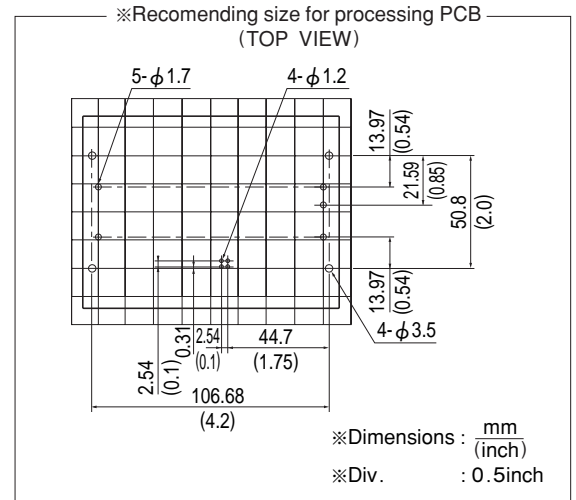
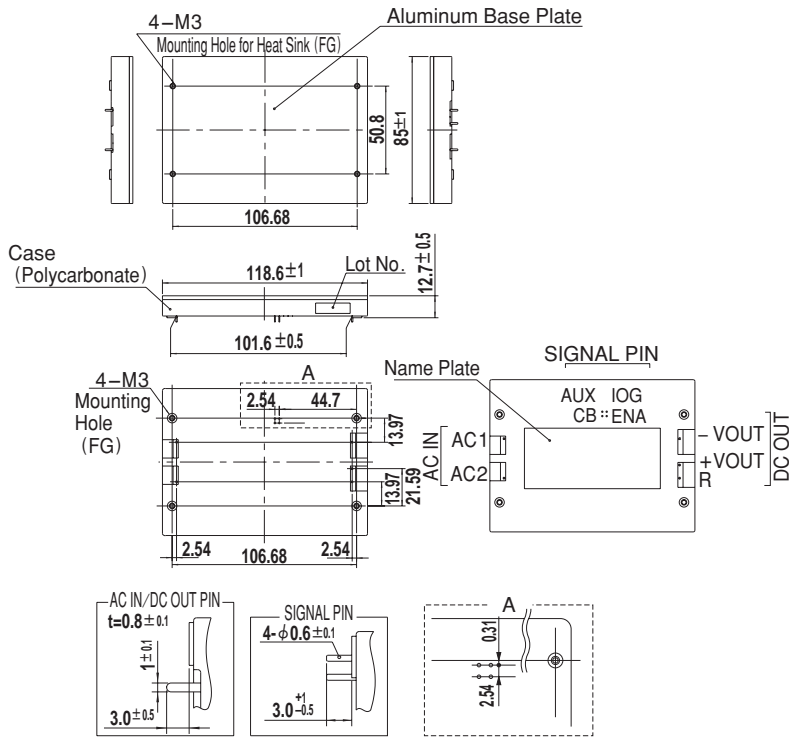
*2 When the input voltage is more than 255V, the power factor corrector function stops, and the output voltage becomes rectified AC input voltage.

*3 The value included the output setting and the line regulation, the load regulation and the temperature regulation. However, the input voltage is in the power factor correction range.

*4 Please consult us in regard to use from -40 $^{\circ}$ C.

* External components are required. Refer to standard connection method.

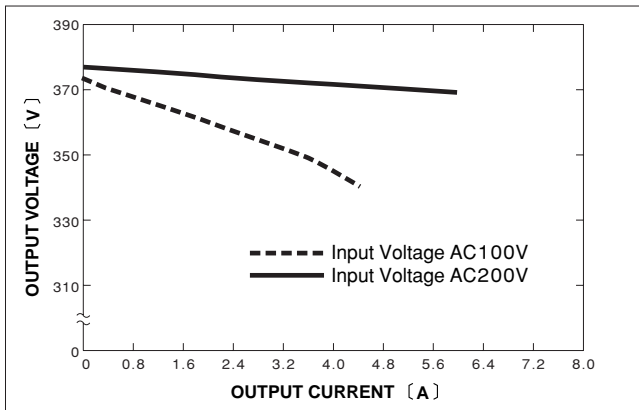
External view



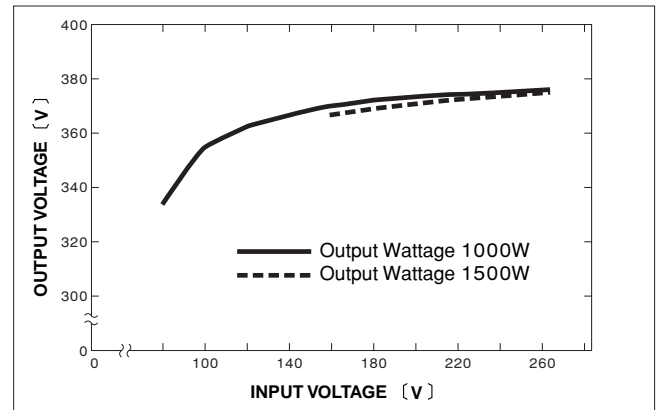
- ※Weight: 200g or less.
- ※Tolerance: ± 0.3
- ※Base Plate: Aluminum
- ※Mounting torque
- Mounting hole screwing torque 0.4N·m (5.0kgf·cm) max

Performance data

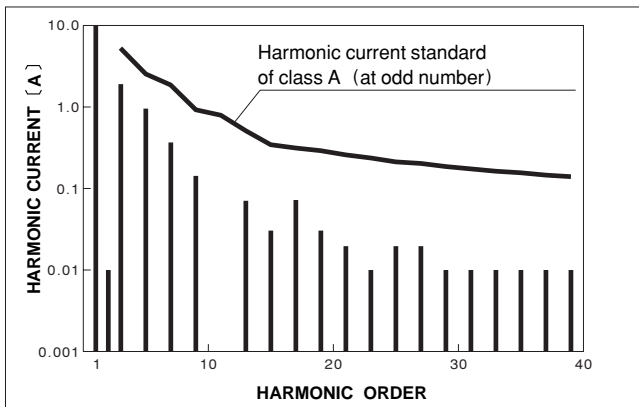
■ STATIC CHARACTERISTICS



■ OUTPUT VOLTAGE FOR INPUT



■ HARMONIC CURRENT (AC100V)



■ HARMONIC CURRENT (AC230V)

