COSEL AC-DC Power Supplies Power Module type

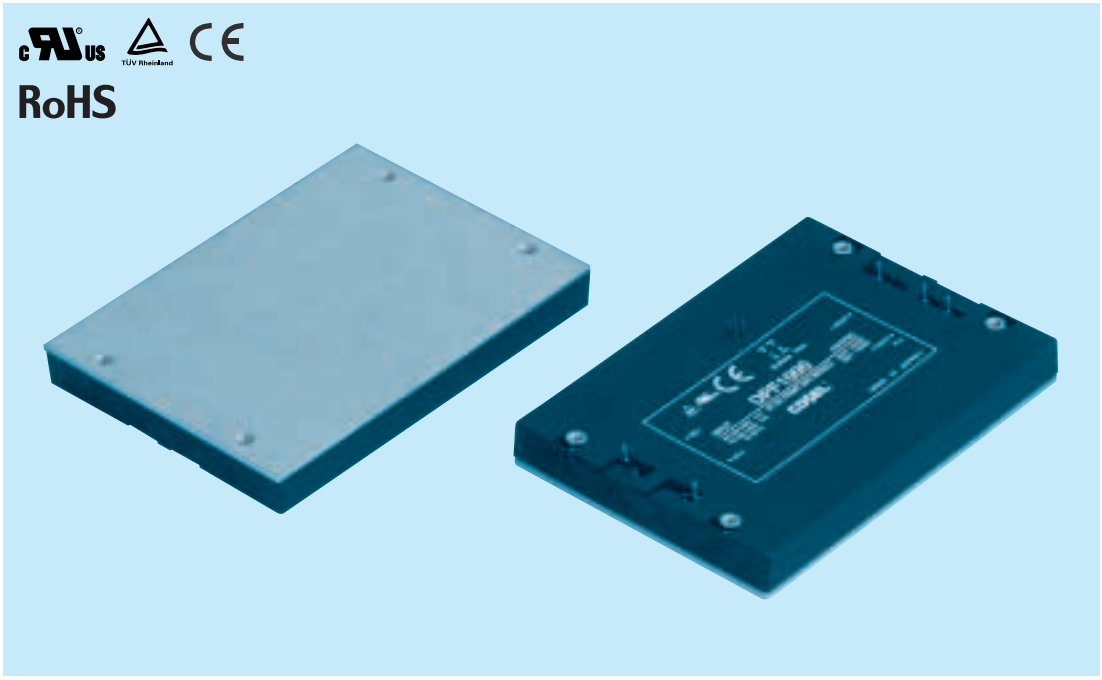
DPF1000

Ordering information

DPF 1000

① ②

①Series name
②Output wattage



DPF

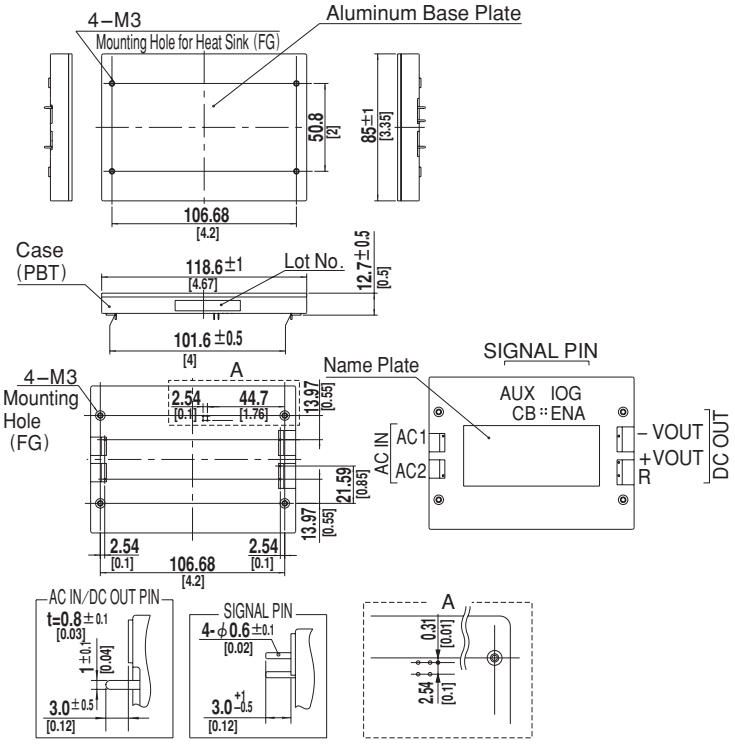
MODEL	DPF1000	
AC INPUT[V]	AC85 - 264	AC170 - 264
MAX OUTPUT WATTAGE[W]	1,000	1,500
DC OUTPUT VOLTAGE[V]	DC360	

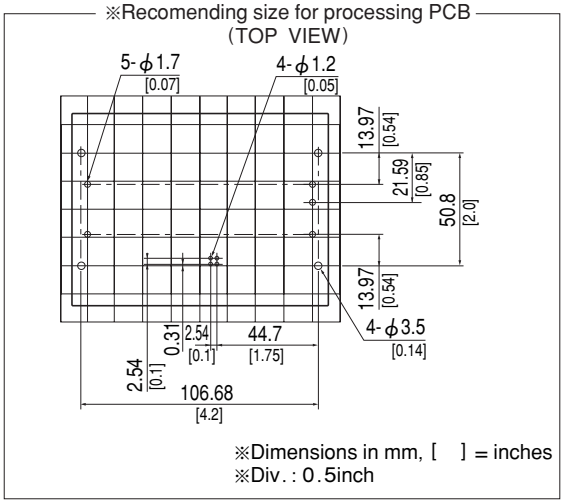
SPECIFICATIONS

	MODEL	DPF1000	
INPUT	VOLTAGE[V]	AC85 - 264 1φ	AC170 - 264 1φ
	POWER FACTOR CORRECTION RANGE[V]	AC85 - 255 1φ	
	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, 50MΩmin (20±15℃)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE ＊4	-20 to +85℃ (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℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT	196.1m/s² (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	118.6×12.7×85mm [4.67×0.5×3.35 inches] (W×H×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℃.
＊ External components are required. Refer to standard connection method.

External view



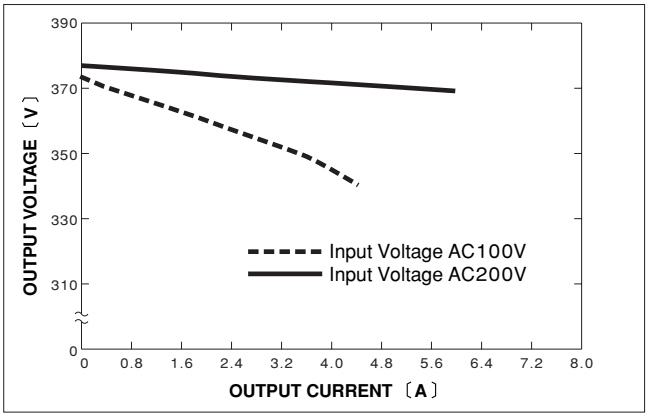


※Weight: 200g max
※Tolerance: ±0.3 [±0.012]
※Dimensions in mm, [ ] = inches
※Base Plate: Aluminum
※Mounting torque
• Mounting hole screwing torque 0.4N•m (5.0kgf•cm) max

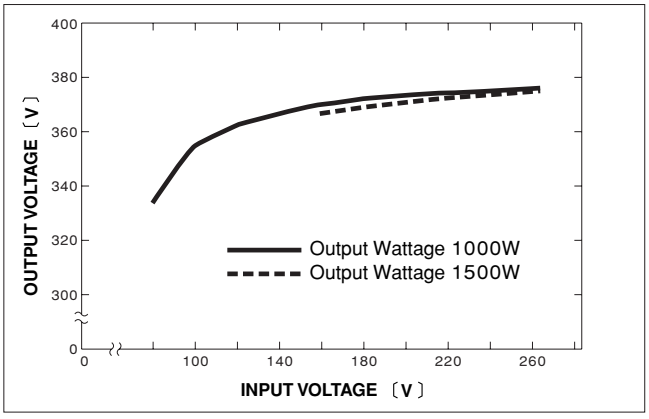
DPF

Performance data

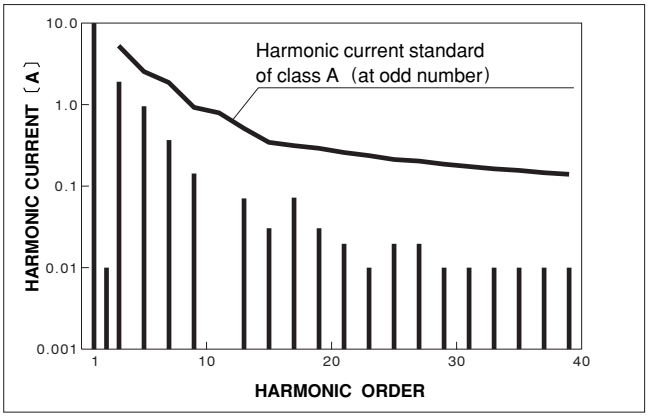
■STATIC CHARACTERISTICS



■OUTPUT VOLTAGE FOR INPUT



■HARMONIC CURRENT (AC100V)



■HARMONIC CURRENT (AC230V)