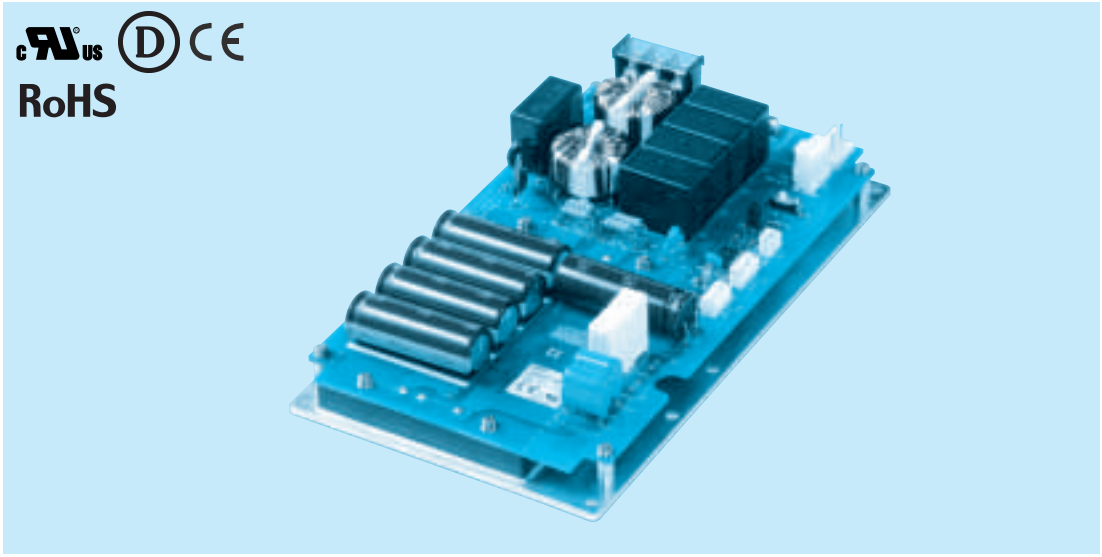
COSEL AC-DC Power Supplies Value-added type

SNDPF1000

Ordering information

SNDPF 1000

① ②



①Series name
②Output wattege
1000 : 1000W (AC 100V)
1500 : 1500W (AC 200V)

＊ For connection of loads except the series SNDHS/SNDBS, please contact Cosel development department.

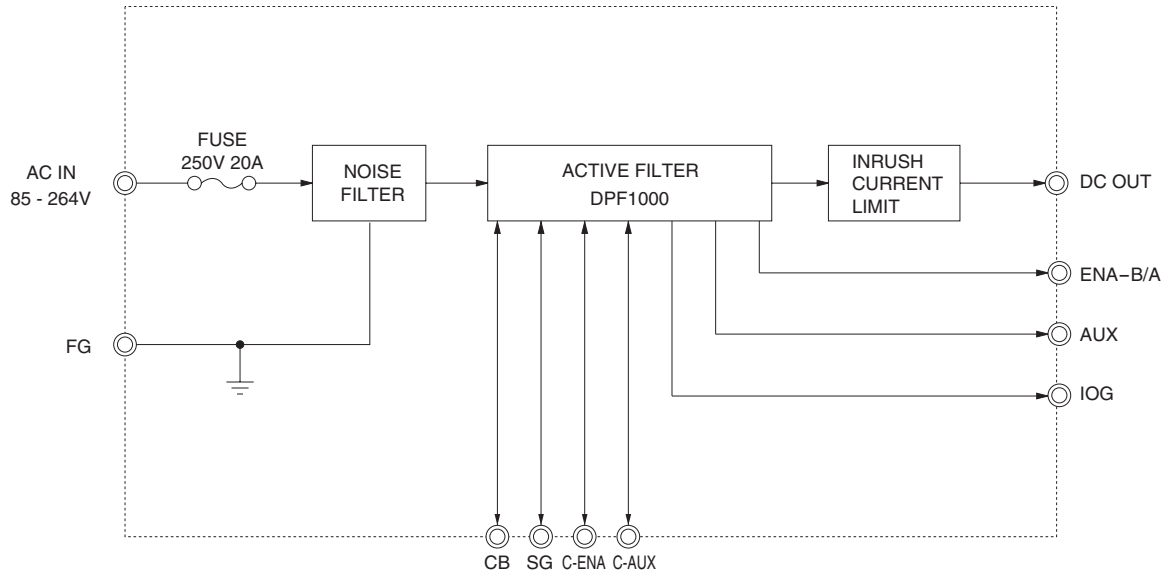
MODEL		SNDPF1000	
AC INPUT[V]		AC85 - 264	AC170 - 264
MAX OUTPUT WATTAGE[W]	＊1	1000	1500
DC OUTPUT VOLTAGE[V]	＊2	360	

SPECIFICATIONS

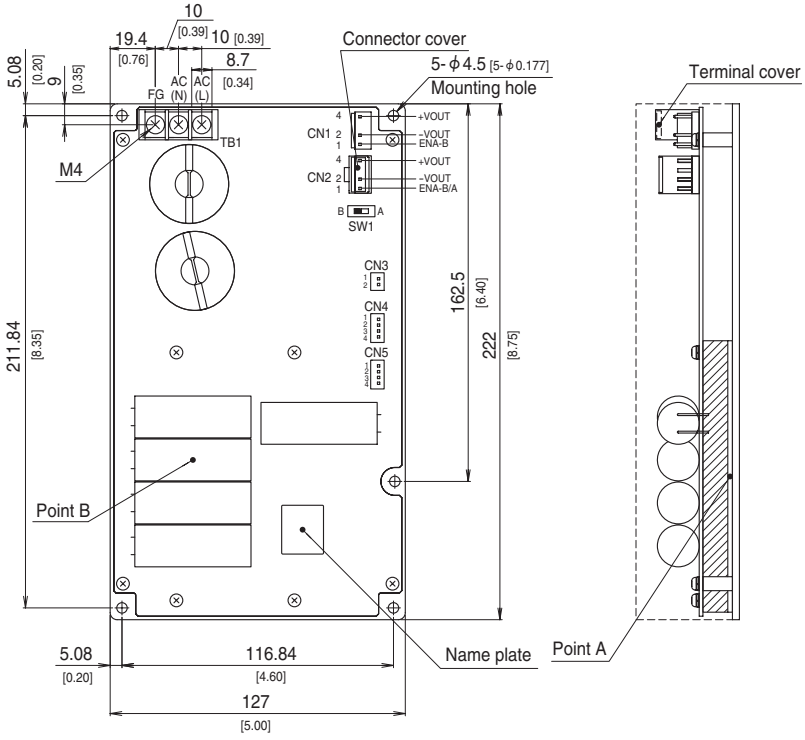
	MODEL		SNDPF1000	
INPUT	VOLTAGE[V]		AC85 - 264 1 ϕ	AC170 - 264 1 ϕ
	POWER FACTOR CORRECTION RANGE[V]		AC85 - 255 1 ϕ	
	CURRENT[A]		11.5typ (ACIN 100V)	8.5typ (ACIN 200V)
	FREQUENCY[Hz]		50/60 (47 - 63)	
	INRUSH CURRENT[A] ＊3	AC100V	20/20 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 10 sec. to re-start)	
		AC200V	40/20 typ (Io=100%) (Primary inrush current / Secondary inrush current) (More than 10 sec. to re-start)	
	EFFICIENCY[%]		90typ (ACIN 100V, Io=100%)	95typ (ACIN 200V, Io=100%)
	POWER FACTOR		0.98typ (ACIN 100V, Io=100%)	0.95typ (ACIN 200V, Io=100%)
	LEAKAGE CURRENT[mA]		0.75 max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1, DENAN)	
OUTPUT	WATTAGE[W]		1000	1500
	VOLTAGE[V]	＊2	360	
	VOLTAGE ACCURACY	＊4	±20%	
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION[V]		DC400-450V The power factor correction function stops	
	IOG		Inverter operation monitoring, Open-collector output, Maximum sink current 10mA, Maximum allowance voltage 35V	
	ENA	＊5	Enable signal, Open-collector output, Maximum sink current 10mA, Maximum allowance voltage 35V	
	AUX		Auxiliary power supply for external signal Refer to Instruction Manual (4.6 AUX)	
	OTHERS	＊6	Parallel operation possible (Current balancing function), Thermal protection	
ISOLATION	INPUT-OUTPUT		Non isolated	
	INPUT, OUTPUT-FG		AC3,000V 1minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15℃)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-20 to +80℃(On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max	
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis	
SAFETY	SAFETY AGENCY APPROVALS		UL60950-1, C-UL, EN60950-1, Complies with DEN-AN	
	CONDUCTED NOISE		Complies with FCC-A, VCCI-A, CISPR22-A, EN55011-A, EN55022-A	
	HARMONIC ATTENUATOR	＊7	Complies with IEC61000-3-2 (Class A) (1000W output power exceeds the electrolytic capacitor is required for external)	
OTHERS	CASE SIZE/WEIGHT		127×44.5×222mm [5.0×1.75×8.75inches] (W×H×D) / 920g max	
	COOLING METHOD		Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)	

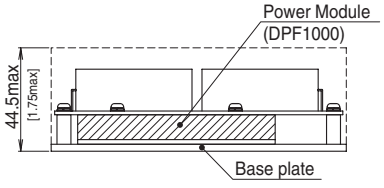
＊1 Refer to input voltage derating.
＊2 When the input voltage is more than 255V, the power factor correction function stops, and the output voltage becomes rectified AC input voltage.
＊3 The current of input surge to a built-in EMI/EMC filter (0.2ms or less) is excluded.
＊4 The value included the output setting and the line regulation, the load regulation and the temperature regulation.
However, the input voltage is in the power factor correction range.
＊5 Refer to manual.
＊6 The power factor correction function and ENA stop when thermal protection function works.
＊7 Please contact us about Harmonic attenuator class C.

Block diagram



External view





※ Tolerance : ±1 [±0.04]
※ Weight : 920g max
※ Dimensions in mm, [ ]=inches
※ PCB material/thickness : FR-4 / 1.6mm [0.06]
※ Screw tightening torque : 1.6N · m (16.9kgf · cm) max
※ Component positions and sizes are for your reference if they have no dimensions.
※ Please connect safety ground to the base plate in φ4.5 [φ0.177] hole.
※ The following parts are attached at shipping from factory
CN2 : Housing for protection
※ Keep drawing current per pin below 7A for CN1/CN2.