Power Factor Correction

World wide
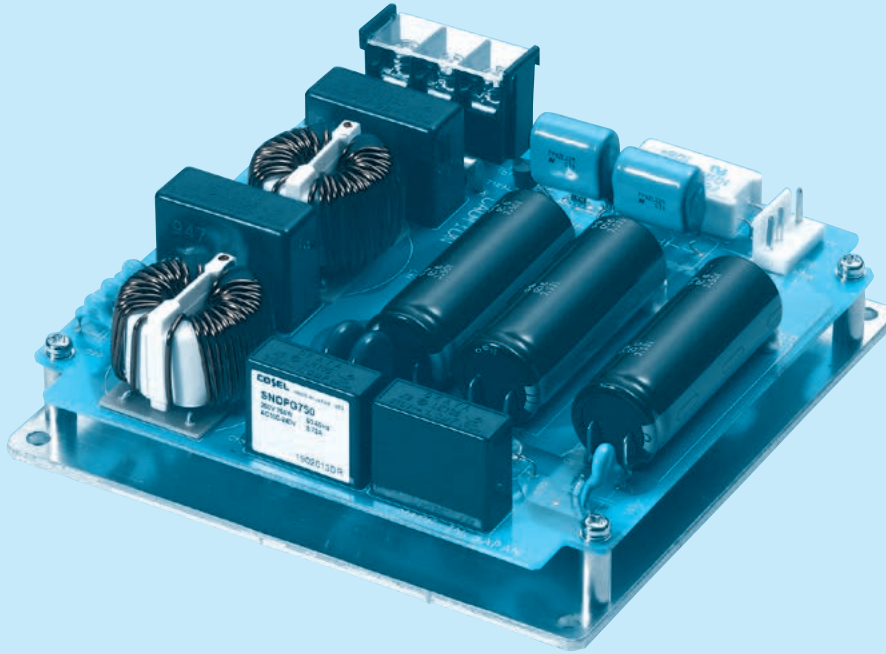
Inrush current limiting

OVP

SNDPG-series

■ Power factor correction module

Compact AC - DC converter, SNDPG series includes DPG series
Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)
AC-DC Converter can be constituted in combination with SNDHS series and SNDBS series

■ Features

High efficiency 93% (AC100V), 96% (AC200V)
Harmonic attenuator (Complies with IEC61000-3-2)
Universal input voltage (AC85 - 264V)
Built-in inrush current protection
Enable signal (ENA)

■ Safety agency approvals

UL60950-1, C-UL and EN62368-1
Complies with DEN-AN

■ 3-year warranty

■ CE marking

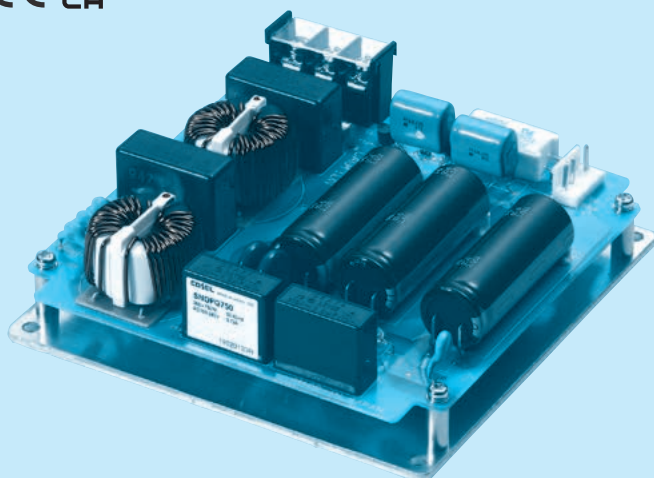Low Voltage Directive
RoHS Directive

■ UKCA marking

Electrical Equipment Safety Regulations
RoHS Regulations

SNDPG750

SNDPG 750 -☐ _____ _____ _____
① ② ③

① Series name
② Output power
　750 : 750W (ACIN 200V)
③ Optional
　C：with Coating
　R：with Remote ON/OFF
　　(Enable signal)

Please refer to Instruction manual 7.

＊ Please note that the unit's internal components is damaged if the output is short-circuit.

MODEL	SNDPG750	
AC INPUT[V]	AC85 - 264	AC170 - 264
MAX OUTPUT WATTAGE[W] ＊1	500	750
DC OUTPUT VOLTAGE[V] ＊2	360	

SPECIFICATIONS

	MODEL		SNDPG750	
INPUT	VOLTAGE[V]		AC85 - 264 1φ	AC170 - 264 1φ
	POWER FACTOR CORRECTION RANGE[V]		AC85 - 264 1φ	
	CURRENT[A]		5.72typ (ACIN 100V)	4.24typ (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[%]		93typ (ACIN 100V)	96typ (ACIN 200V)
	POWER FACTOR		0.96typ (ACIN 100V)	0.93typ (ACIN 200V)
	LEAKAGE CURRENT[mA]		0.75 max (60Hz, According to IEC62368-1 and DEN-AN)	
OUTPUT	WATTAGE[W]		500	750
	VOLTAGE[V] ＊2		360	
	VOLTAGE ACCURACY ＊4		±2%	
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION[V]		DC400 - 450V The power factor corrector function stops	
	ENA ＊5		Enable signal, Open-correcter output	
	OTHERS ＊6		Parallel operation impossible , Thermal protection	
ISOLATION	INPUT-OUTPUT, RC ＊9		Non isolated	
	INPUT, OUTPUT, RC-FG ＊9		AC2,800V 1minute Cutoff current = 10mA, DC500V, 50MΩ min (20±15℃)	
	OUTPUT-RC ＊9		AC100V 1minute Cutoff current = 25mA, DC100V, 10MΩ min (20±15℃)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE ＊8		-20 to +95℃(Aluminum base plate of the power module), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max	
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +95℃, 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, EN62368-1, 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	
OTHERS	CASE SIZE/WEIGHT		125×44.5×127mm [4.92×1.75×5.0inches] (W×H×D) / 600g max	
	COOLING METHOD		Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)	

＊1　Refer to the instruction manual 2.
＊2　When the input voltage is more than 240V, the output voltage becomes the value proportional to the input voltage.
＊3　The value is primary surge. The current of input surge to a built-in noise 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 less than 240V.
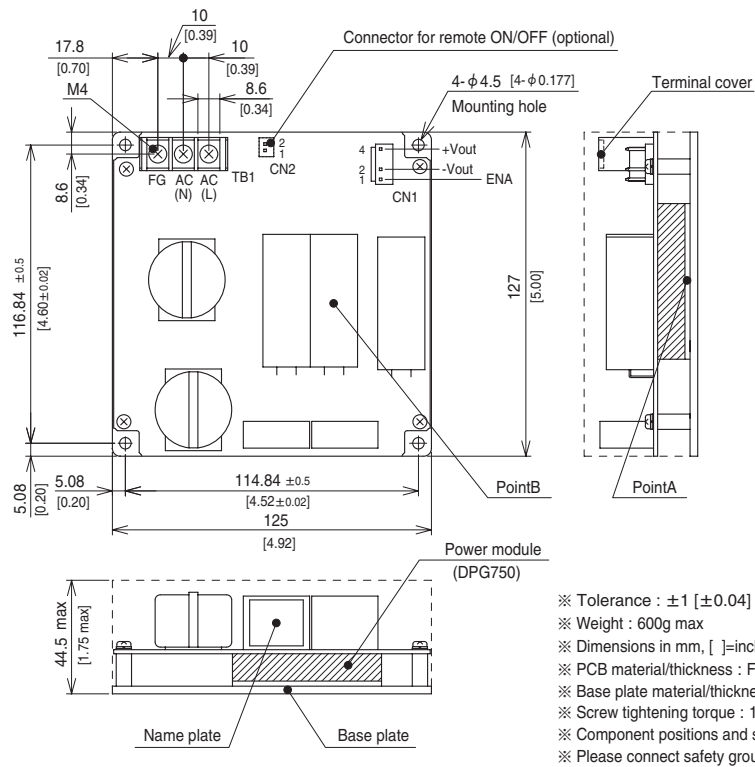
＊5　Refer to the instruction manual 4.4.
＊6　The thermal protection stops the power factor corrector function and the ENA signal.
＊7　Please contact us about class C.
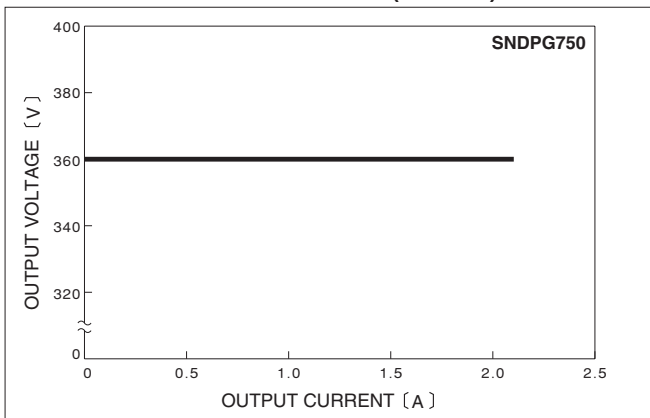＊8　Refer to the instruction manual 6.2.
＊9　Applicable when remote control (optional) is added.
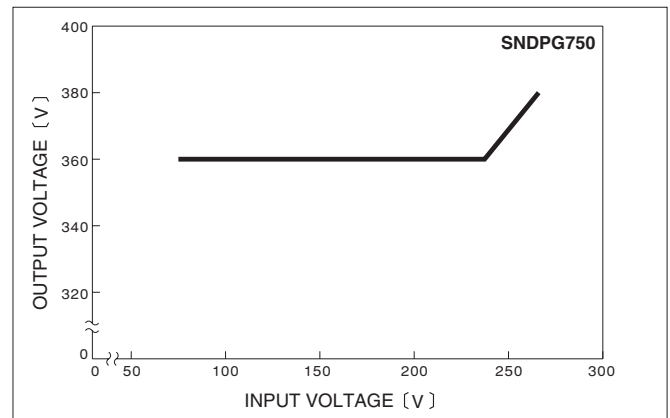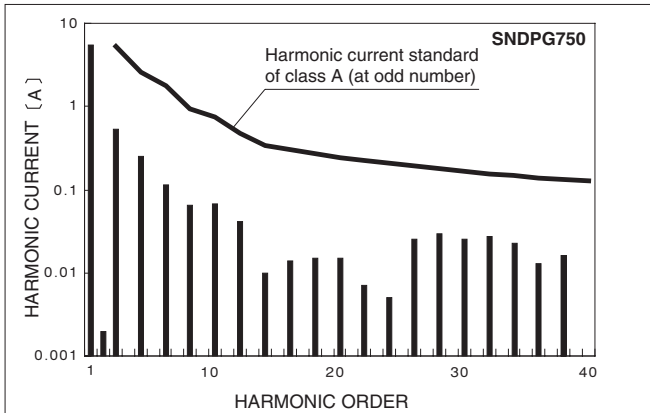
External view

※ Tolerance : ±1 [±0.04]
※ Weight : 600g max
※ Dimensions in mm, [ ]=inches
※ PCB material/thickness : FR-4 / 1.6mm [0.06]
※ Base plate material/thickness : Aluminum / 3.0mm [0.12]
※ 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.

Performance data

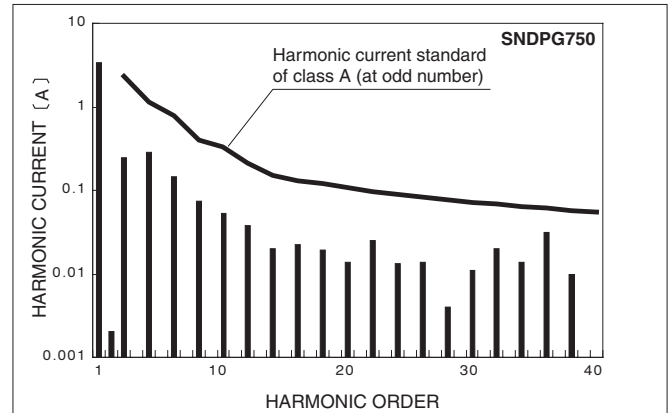### ■ STATIC CHARACTERISTICS (AC230V)

■ OUTPUT VOLTAGE FOR INPUT

■ HARMONIC CURRENT (AC100V)

■ HARMONIC CURRENT (AC230V)

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