

Specifications

Product name		SEG60N2-12.0	SEG60N2-24.0	
Input condition	Nominal input voltage	AC100V—AC240V		
	Input voltage variation range	AC90~265V (Input voltage distortion is 5% or less.)		
	Nominal frequency	50/60Hz		
	Input current	1.5A or less. (VIN = 100V)		
	Input power (No load)	0.15W or less. (VIN = 115V / 230V)		
	Inrush current	100A _{o-p} or less. (VIN = 230V, Nominal output, Cold start)		
	Average efficiency	88% or less / 89% or less (VIN = 115V/230V)		
	Leakage current (max)	120 μA (VIN = 240V, 50Hz)		
Output requirements *1	Nominal output voltage	12V	24V	
	Nominal output current	4.17A	2.5A	
	Nominal output power	50W	60W	
	Output current range *2	0~5.0A	0~2.7A	
	Overall regulation	11.0~13.0V	22.0~26.0V	
	Ripple noise	350mVp-p (Rated input and output condition)		
Protection function	Over current protection	5.0A or more	2.7A or more	
	Over voltage protection	25V or less	36V or less	
Environment requirements	Storage temperature	-20~+80°C		
	Operation temperature	0~+60°C (cf. *4 Derating curve)		
	Storage humidity	10%~90% (No condensing)		
	Operation humidity	20%~80% (No condensing)		
	Vibration	Frequency	10~55Hz	
		Acceleration	19.6m/s ²	
		Sweep time	2min	
		Direction	X, Y, Z	
Vibration time		30min		
Shock	Storage	Lift this unit a height of 70cm from an oak board and drop it. One time on each side. (total 6 times) There should be no damage.		
Noise immunity	Lightning surge	IEC61000-4-5	L-L: 1.0kV / L-FG: 2kV (No damage)	
	ESD	IEC61000-4-2	8kV (No damage, No error)	
	EFT/B	IEC61000-4-4	L-L / L-FG: 1kV (No damage)	
Others	EMI regulations	J55032 complied, Design to meet VCCI Class-B, FCC Class-B, CISPR Class B (EN55032)		
	Safety standards	J62368-1, UL62368-1, CSA62368-1(c-UL) complied		
	Withstand Voltage	P-S: 3kV 1min. (cut-off = 5mA)		
	Insulation Resistance	P-S: DC500V 50MΩ or more		
	MTBF	200,000H or more		
	Life time	10,000H or more (Ta = 25°C) (cf. *5 Life time curve)		
	Externals size [mm]	114.5 x 50.5 x 28 typ.		
	Weight	230g typ.		
	Environment standard	Power save *3	Design to meet Level VI, ErPTire2 (draft)	
		Hazardous substance	Applies to the RoHS standard.	
	Temp. of case	Nominal condition	ΔT = 45°C or less, The case installation side is excluded	

Note #1

- The measuring point is 10 mm from connector at the end of output cable. (cf. Fig 1)
- Voltage regulation includes voltage fluctuation composed of static input variation, static load variation, warm-up drift and temperature change.
- The measurement point is the point determined in Fig 1. Use the following for measurement.
 - Probe having impedance ratio of 1:1
 - Oscilloscope having frequency characteristics of 100MHz.
 - Measured from the measurement point with 47 μF electrolytic capacitor.
- The AC cable is not included. Use a cable with double insulation (for Japan only). Use a power code set (plug, connector, cable) that has been certified for the country of sale.

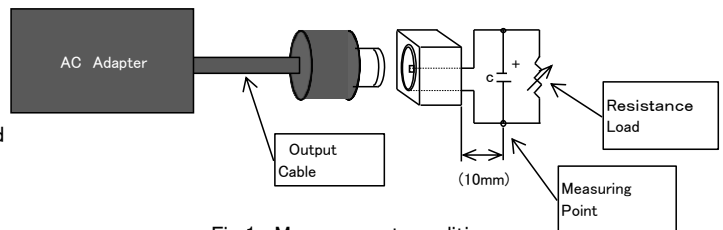


Fig 1 : Measurement condition

Note #2

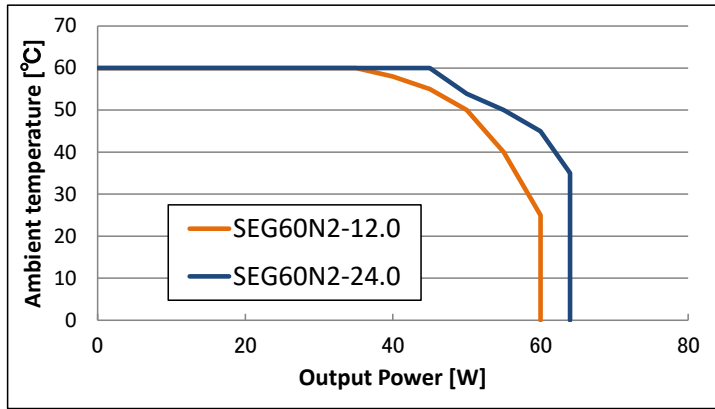
- Peak mode (from nominal output current to output current max) can use within 5 sec only. (Ta=25°C)
- And average output power need use within nominal output power.

Note #3

- NRCan (Canadian Energy Efficiency Regulation) can be applied from our company. (The level can be displayed on label).
- DoE can't be applied from our company because we have no local corporation.

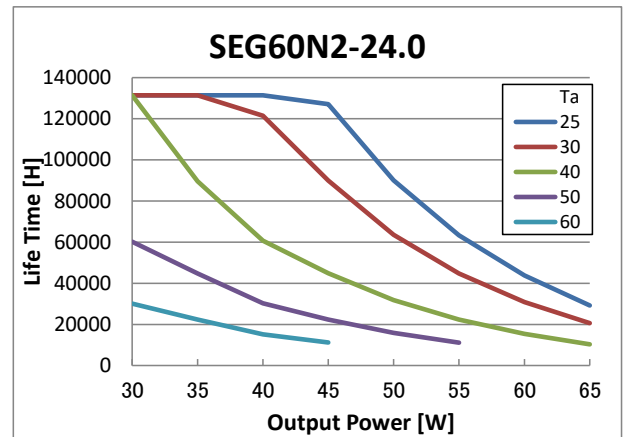
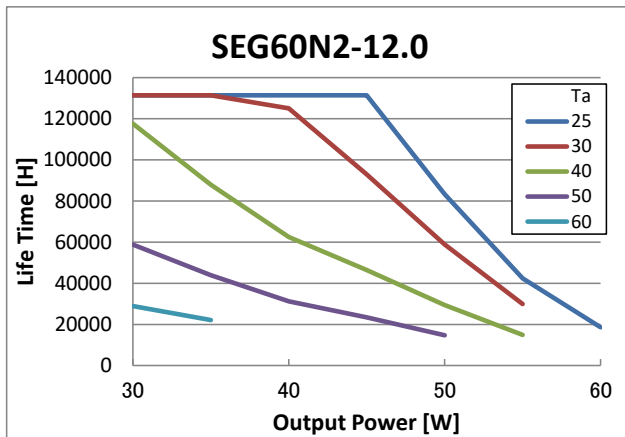
Note #4

Derating curve (Ambient temperature vs Output power)



Note #5

Life time vs Output power (Just for reference)



Ta: Ambient temperature [°C]

DC plug, Input inlet form

The form of the DC plug is determined by the output voltage. Please inquire about it.

Model	SEG50N2-12.0	SEG60N2-24.0
DC plug	EIAJ RC-5320A Voltage category IV	Diameter: Outer ϕ 5.5 Inner ϕ 2.1
Input inlet form	Class II (2-pole) (IEC60320-1 C8)	

Dimensions [mm]

SEG Series

