

Model name : SEG60N2-12.0*(1A721W-*)

Input Voltage (V)	MIN	90
	NOM	100
		240
	MAX	265

Output Current (A)		CH-1
		12.0V
	MIN	0.00
	NOM	4.17
	MAX(参考)	5.00

	Ta
MIN	0°C
NOM	25°C
MAX	35°C

Input Characteristics (1)

Input Voltage	Output Current	Ta	Result			Specifications	Judge
			MIN	NOM	MAX		
90V	MIN	Input Current (A)	0.012	0.012	0.012	---	---
		Input Power (W)	0.046	0.044	0.044	---	---
		Power Factor	0.041	0.041	0.040	---	---
		Efficiency (%)	---	---	---	---	---
	NOM	Input Current (A)	1.023	1.076	1.075	---	---
		Input Power (W)	61.830	58.990	59.080	---	---
		Power Factor	0.669	0.607	0.609	---	---
		Efficiency (%)	80.57	83.80	83.76	---	---
100V	MIN	Input Current (A)	0.013	0.013	0.013	---	---
		Input Power (W)	0.046	0.046	0.046	---	---
		Power Factor	0.035	0.034	0.034	---	---
		Efficiency (%)	---	---	---	---	---
	NOM	Input Current (A)	0.952	1.000	0.998	1.5A or less	Good
		Input Power (W)	60.090	58.150	58.220	---	---
		Power Factor	0.629	0.579	0.581	---	---
		Efficiency (%)	82.88	85.05	84.97	---	---
240V	MIN	Input Current (A)	0.031	0.030	0.030	---	---
		Input Power (W)	0.084	0.084	0.084	---	---
		Power Factor	0.012	0.012	0.012	---	---
		Efficiency (%)	---	---	---	---	---
	NOM	Input Current (A)	0.510	0.559	0.557	---	---
		Input Power (W)	58.010	57.020	57.030	---	---
		Power Factor	0.472	0.424	0.425	---	---
		Efficiency (%)	85.73	86.65	86.64	---	---
265V	MIN	Input Current (A)	0.034	0.034	0.034	---	---
		Input Power (W)	0.096	0.096	0.096	---	---
		Power Factor	0.011	0.011	0.011	---	---
		Efficiency (%)	---	---	---	---	---
	NOM	Input Current (A)	0.477	0.522	0.521	---	---
		Input Power (W)	57.800	57.110	57.120	---	---
		Power Factor	0.456	0.412	0.413	---	---
		Efficiency (%)	86.01	86.49	86.47	---	---

Input Characteristics (2)

Input Voltage	Output Current	Ta	Result			Specifications	Judge
			MIN	NOM	MAX		
230V	NOM	Inrush Current (Cold start) (A)	---	52.0	---	100A _{o-p} 以下 (定格入出力, コールドスタート時)	Good
240V	NOM	Leakage Current (μA) HIOKI ST5541 : Network C (ON1), Peak, Input 50/60Hz	50Hz		60Hz	120uA or less (Vin 240V/50Hz)	Good
			51.70		60.90		

Output Characteristics (1)

	Ta	Input Voltage	Output Current	Result					Judge	
				12.0V						
Setup Voltage	NOM	100V	NOM	11.859					Good	
Output Voltage (V)	MIN	90V	MIN	12.441					Good	
		265V		12.441						
		90V	NOM	11.945						
		100V		11.942						
		240V		11.926						
		265V		11.922						
	90V	MAX	11.837							
	265V		11.810							
	NOM	90V	MIN	12.421						
		265V		12.423						
		90V	NOM	11.853						
		100V		11.859						
		240V		11.848						
		265V		11.844						
	90V	MAX	11.749							
265V	11.725									
MAX	90V	MIN	12.428							
	265V		12.427							
	90V	NOM	11.866							
	100V		11.863							
	240V		11.848							
	265V		11.844							
90V	MAX	11.748								
265V		11.722								
Drift Temperature (V)		100V	NOM	0.083 0.000					--	
Drift Time Effect (V)	25°C	100V	NOM	-0.002 0.005						--
Total Regulation (V)				11.730 ~ 12.504						Good
			Specifications	11.000 ~ 13.000						

Output Characteristics (2)

	Ta	Input Voltage	Output Current	Result				Judge
				Input Frequency		Switching Frequency		
				Ripple	Noise	Ripple	Noise	
Ripple Voltage (mV)	MIN	90V	NOM	92	109	90	96	Good
	NOM	/		50	89	45	88	
	MAX	265V		50	99	38	96	
	Specification				350		350	

Protection

	Ta	Input Voltage	Output Current	Result					Judge
				12.0V					
Over Current Protection (A)	MIN	90V	---	6.525					Good
		265V		7.275					
	NOM	90V	---	6.525					
		265V		7.325					
	MAX	90V	---	6.563					
		265V		7.288					
		Specifications	5.0A or more	--					
Over Voltage Protection (V)	MIN	265V	Half Load	17.995					
	NOM			18.042					
	MAX			18.082					
	Specifications (Ta NOM)			25V or less					

Others Characteristics

	Input Voltage	Output Current	Result				Specifications	Judge
Low Temperature Power ON	90V	NOM	Test Condition : -15°C OK				0°C	Good
High Temperature Power ON	90V	NOM	Test Condition : +80°C OK				35°C	Good
Output Short and Short Power ON With OCP	90V / 265V	---	Ta	MIN	NOM	MAX	--	--
			12.0V	Shutdown (Latch Off)				
Output Short and Short Power ON With shorter	90V / 265V	---	Ta	MIN	NOM	MAX	--	--
			12.0V	Shutdown (Latch Off)				

Insulation

	Result				Specifications	Judge	
Hi-pot	Primary to Secondary (kV) Leak Current (mA)	--	100%	120%	Limit	3.0kV for 1min 3.6kV for 1sec 5mA or less	Good
		3.00	3.60	4.32	--		
		Pass	Pass	Pass	--		
Insulation Resistance (DC500V Mega)	Primary to Secondary : 500 MΩ more than				50 MΩ min	Good	

Outside Noise Capability

	Input Voltage	Output Current	Result				Specifications	Judge
ESD (Electrostatic Discharge) C: 150pF, R: 330Ω	90V / 265V	MIN / MAX	Specification x 140%				±8kV(Contact) 10 times	Good
			Contact	±11.2 kV No Error, No damage				
EFT (Electrical Fast Transien/ Burst) Frequency: 5.0 kHz Duration : 60 Second	240V	MIN / MAX	Specification x 120%				±1kV No Error	--
			L1	±1.2 kV No Error, No damage				
			L2	±1.2 kV No Error, No damage				
			FG	±1.2 kV No Error, No damage				
			L1, L2	±1.2 kV No Error, No damage				
			L1, FG	±1.2 kV No Error, No damage				
			L2, FG	±1.2 kV No Error, No damage				
Lightning surge Impedance 2Ω, 1.2x50us	240V	NOM	Specification x 120%				L-L±1.0kV L-FG±2.0kV 5 times No Error	Good
			L-L	±1.2 kV No Error, No damage				
			L-FG	±2.4 kV No Error, No damage				