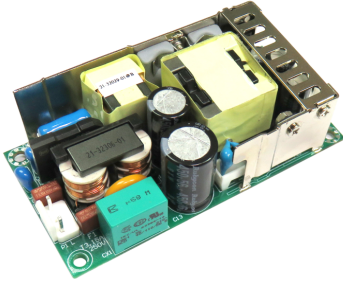


SHFA100 SERIES



100~150W Open-Frame Power Supply for Medical Equipment

- Wide Operating Voltage 90 to 260 VAC, 47 to 63Hz
- Single Output
- Protection: OVP, OLP
- Size 2"x4"x1.02"
- Input to Output G2MOPP
- High ESD Immunity
- Suitable professional healthcare facility

3 Year Warranty

Approvals:

Single Output

Model Number	Output Voltage		Output Current				Total Regulation	Maximum Output Power		Typ. Efficiency	Typ. No Load Consumption
	min	max	min	max	(with fan cooling)			(Free Air)	(Forced Air)		
					min	max					
SHFA100-S05F	11.0 VDC	13.0 VDC	7.69 A	8.33 A	11.53 A	13.63 A	±3%	100 W	150 W	86%	0.5 W
SHFA100-S06F	13.0 VDC	16.0 VDC	6.25 A	7.69 A	9.37 A	11.53 A	±3%	100 W	150 W	86%	0.5 W
SHFA100-S07F	16.0 VDC	21.0 VDC	4.77 A	6.25 A	7.14 A	9.37 A	±3%	100 W	150 W	87%	0.5 W
SHFA100-S08F	21.0 VDC	27.0 VDC	3.70 A	4.77 A	5.55 A	7.14 A	±3%	100 W	150 W	88%	0.5 W
SHFA100-S09F	27.0 VDC	33.0 VDC	3.03 A	3.70 A	4.54 A	5.55 A	±3%	100 W	150 W	88%	0.5 W
SHFA100-S10F	33.0 VDC	40.0 VDC	2.50 A	3.03 A	3.75 A	4.54 A	±3%	100 W	150 W	88%	0.5 W
SHFA100-S11F	40.0 VDC	50.0 VDC	2.00 A	2.50 A	3.00 A	3.75 A	±3%	100 W	150 W	88%	0.5 W

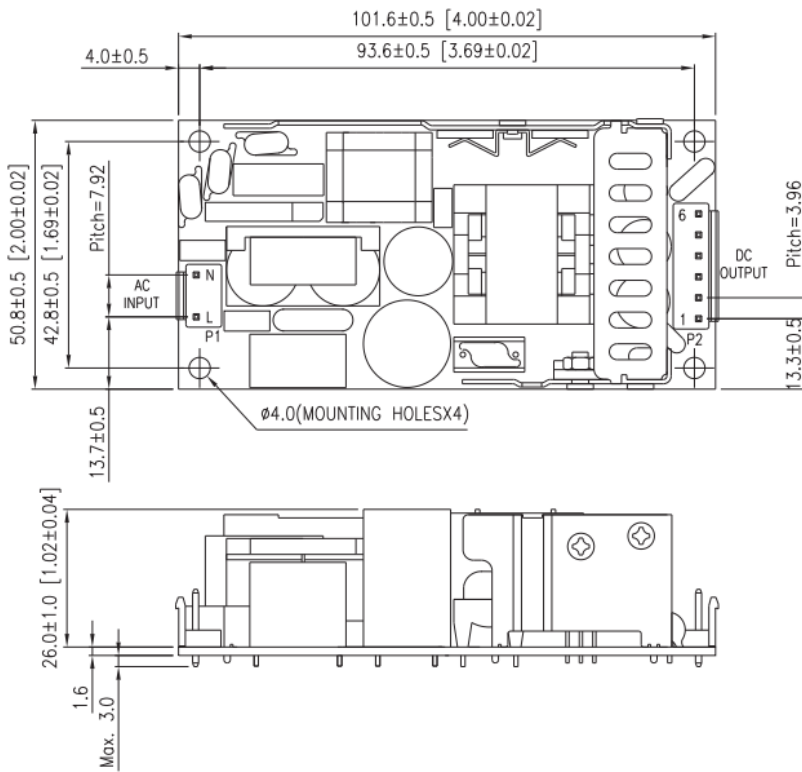
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		260	VAC
Input Frequency	Sine wave	47		63	Hz
Power Factor Correction		0.90		1	
Output Power Range	See Rating Chart		100	150	W
Low Line Input Current	Full load, Vin=100VAC		1.4		A
High Line Input Current	Full load, Vin=240VAC		0.7		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			50	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			100	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
Efficiency	Full Load, Vin=230VAC	86		88	%
Line Regulation	Full Load, Vin=100~120VAC or 200~240VAC			1	%
Over Voltage Protection		112		132	%
Over Load Protection	Recovers automatically after fault condition is removed	160		200	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC			16	ms
Start Up Time	Full Load, Vin=100~240VAC			0.5	s
Insulation Resistance		50			MΩ
Ripple & Noise (Peak to Peak)				1	%
Temperature Coefficient	All output			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary, limit current<10mA	4000			VAC
Dielectric Withstanding Voltage(P-G)	Primary to PE, limit current<10mA	2828			VAC
EMC Emission	Compliance to EN55011(CISPR11), EN60601-1-2	B			Class

Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 40 to 50% load at 70	-10		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			15	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			8	KV
Mean Time Between Failure	Operation Temperature at 25°CJ, Calculated per MIL-HDBK-217F	200K			h
Operating Altitude (Elevation)	All Condition			3000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

Mechanical Diagram and Technical Chart



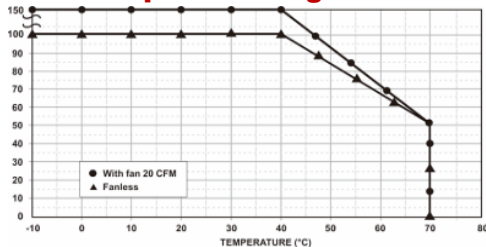
Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 180~250g
3. Input connector mates with JST housing VHR-3N and JST SVH series crimp terminal.
4. Output connector mates with JST housing VHR-6N and JST SVH series crimp terminal.

PIN Chart

MODEL	PIN	1	2	3	4	5	6
SHFA100-SXX		OUT	OUT	OUT	RTN	RTN	RTN

Output Derating Curve



1. Operating Temperature: -10 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C