HWS50A/EVA

SPECIFICATIONS (1/2)

A286-01-01/EVA

ITEMS \ MODEL				HWS50A-12/EVA	HWS50A-15/EVA	HWS50A-24/EVA	HWS50A-48/EVA
INPUT							
Input Voltage Range	(*2)		-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC			
Efficiency(Typ.)	(*1)	100/200VAC	%	83 / 85	83 / 86	84 / 87	84 / 86
Input Current(Typ.)	(*1)	100/200VAC	A	0.65 / 0.35			
Inrush Current (Typ.)	(*1)(*3)	100/200VAC	A	14 / 28 (Cold Start)			
Power Factor (Typ.)	(*1)	100/200VAC	-	0.97 / 0.91			
OUTPUT							
Nominal Output Voltage			V	12	15	24	48
Output Voltage Initial set Accuracy	(*12)		-	±1%			
Maximum Output Current			A	4.3	3.5	2.2	1.1
Maximum Output Power			W	51.6	52.5	52.8	52.8
Maximum Line Regulation	(*5)		mV	48	60	96	192
Maximum Load Regulation	(*6)		mV	96	120	150	240
Temperature Coefficient			-	Less than 0.02% / °C			
Maximum Ripple & Noise		0≤Ta≤70°C	mV	150	150	150	200
	(*4)	-10≤Ta<0°C	mV	180	180	180	240
Output Voltage Range			V	9.6 - 14.4	12.0 - 18.0	19.2 - 28.8	38.4 - 52.8
Hold-up Time (Typ.)	(*1)		ms	20			
Leakage Current	(*9)		-	Less than 0.5mA. 0.2mA (Typ) at 100VAC / 0.4mA (Typ) at 230VAC			
Over Current Protection	(*7)		A	4.51 ≤	3.67 ≤	2.31 ≤	1.15 ≤
Over Voltage Protection	(*8)		V	15.0 - 17.4	18.8 - 21.8	30.0 - 34.8	55.2 - 64.8
FUNCTION							
Remote ON/OFF Control			-	-			
Remote Sensing			-	-			
Parallel Operation			-	-			
Series Operation			-	Possible			
ENVIRONMENT							
Operating Temperature	(*10)		-	-10 to +70°C (-10 to +50°C:100%, +60°C:60%, +70°C:20%)			
Storage Temperature			-	-30 to +85°C			
Operating Humidity			-	30 to 90%RH (No Condensing)			
Storage Humidity			-	10 to 95%RH (No Condensing)			
Vibration	(*11)		-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each.			
Shock	(*11)		-	Less than 196.1m/s^2			
Cooling			-	Convection Cooling			
ISOLATION							
Withstand Voltage			-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (20mA) for 1min			
Isolation Resistance			-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC			
STANDARD AND COMPLIANCE							
Safety			-	Approved by IEC/UL/CSA/EN62368-1 (Altitude ≤ 4,000m) Approved by IEC/EN62477-1 (OVCIII) (Altitude ≤ 2,000m) Approved by UL508, CSA C22.2 No.107.1-01. Designed to meet Den-an Appendix 8 at 100VAC (creepage distance and clearance only)			
Conducted Emission	(*11)		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B			
Radiated Emission	(*11)		-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B			
Harmonic Current			-	Designed to meet IEC61000-3-2			
Immunity	(*11)		-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11			
Line DIP			-	Designed to meet SEMI-F47 (200VAC Line only)			
MECHANICAL							
Weight (Typ.)			g	300			
Size (W x H x D)			mm	31.5 x 82 x 132.5			

HWS50A/EVA

SPECIFICATIONS (2/2)

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*Read instruction manual carefully, before using the power supply unit.

=NOTES=

*1. At 100VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.
*2. For cases where conformance is required to meet various safety specs (UL, CSA, EN),
Input voltage range shall be from 100 - 240VAC (50-60Hz).
*3. Not applicable for the inrush current to Noise Filter for less than 0.2ms.
*4. Refer to instruction manual (A286-04-01_) for measurement of ripple voltage.
*5. 85 - 265VAC, constant load.
*6. No load-Full load, constant input voltage.
*7. Hiccup with automatic recovery.
Avoid to operate at over load or short circuit condition.
*8. OVP circuit will shut down output, manual reset (Re power on).
*9. Measured by the each measuring method of UL, CSA, EN and Den-an (at 60Hz), Ta=25°C.
*10. Output Derating
- Derating at standard mounting. Refer to OUTPUT DERATING CURVE (A286-01-02/EHA-_).
- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
*11. The result is evaluated by TDK-Lambda standard measurement condition.
The power supply is considered a component which will be installed into a final equipment.
The final equipment should be re-evaluated that it meets EMC, Vibration and Shock directives.
*12. Output voltage setting at the time of shipment. At 100VAC, nominal output voltage and maximum output current.