AN ISO 9000 COMPANY
KEPCO®
THE POWER SUPPLIER™
SINCE 1946

HWS600 12-27316, 15-27317, 24-27318, 48-27319 SPECIFICATIONS
Options /PV; /HD; /ME; /RY; /Ex; /RKW

SPECIFICATION			Notes	Unit	MODELS			
					HWS600-12-27316	HWS600-15-27317	HWS600-24-27318	HWS600-48-27319
1	Nominal Output Voltage		(*1)	V	12	15	24	48
2	Maximum Output Current		(*2)	A	53	43	27 (31)	13
3	Maximum Output Power			W	636	645	648	634
4	Efficiency	100VAC	(*3)	%	80	81	82	83
		200VAC	(*3)	%	83	84	85	86
5	Input Voltage Range		(*4)		85 - 265VAC (47 - 63Hz) or 120 - 330VDC			
6	Input Current (100/200VAC)(Typ)		(*3)	A	8.1/3.9			
7	Inrush Current(Typ)		(*5)		20A at 100VAC, 40A at 200VAC			
8	PFHC				Meet EN 61000-3-2			
9	Power Factor (100/200VAC)(Typ)		(*3)		0.99/0.95			
10	Output Voltage Range	Internal trimpot		Vdc	9.6 to 14.4	12.0 to 18.8	19.2 to 28.8	38.4 to 52.0
		External Resistance			0 to 14.4	0 to 18.0	0 to 28.8	0 to 52.8
		External Voltage			0 to 14.4	0 to 18.0	0 to 28.8	0 to 52.8
11	Maximum Ripple & Noise	0<Ta<70°C		mV	180	180	180	420
		-10<Ta<0°C	(*7)	mv	240	240	240	480
12	Maximum Line Regulation		(*8)	mV	48	60	96	182
13	Minimum Line Regulation		(*9)	mV	96	120	192	384
14	Temperature Coefficient				Less than 0.02% / °C			
15	Overcurrent Protection		(*10)	A	>55.7	>45.2	>31.4	>13.7
16	Over Voltage Protection		((*11)	V	15.0 - 17.4	18.8 - 21.8	30.0 - 34.8	55.2 - 64.8
17	Hold-up Time (Typ)		(*12)		20ms			
18	Leakage Current		(*13)		<0.75mA. 0.2mA(Typ) at 100VAC / 0.44mA(Typ) at 230VAC			
19	Remote Sensing				Yes			
20	Remote ON/OFF Control				Yes (Isolated from output)			
21	Monitoring Signal				PF (Open Collector Output)			
22	Parallel Operation				Yes (Current balance single wire up to 5 units)			
23	Series Operation				Possible			
24	Operating Temperaturte		(*14)		-10 - +70°C (-10 - +50°C:100%, +70°C:50%)			
25	Operating Humidity				10 - 90%RH (No dewdrop)			
26	Storage Temperature				-30 - +85°C			
27	Storage Humidity				10 - 95%RH (No dewdrop)			
28	Cooling				Forced see Outline dwg for flow direction			
29	Withstand Voltage				Input - FG : 2.5kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA),Output - CNT : 100VAC (100mA) for 1min			
30	Isolation Resistance				More than 100MOhms Output - FG : 500VDC More than 10MOhms Output - CNT : 100VDC at 25°C and 70%RH			
31	Vibration				At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s2 Constant, X,Y,Z 1hour each.			
32	Shock (in package)				Less than 196.1m/s2			
33	Safety		(*15)		Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020), EN50178, UL 508. Designed to meet DENAN			
34	Line Dip				Designed to meet SEMI-F47 (200VAC Line only)			
35	Conducted Emission				Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B			
36	Radiated Emission				Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B			
37	Immunity				Designed to meet IEC61000-4-2(Level 2,3), -3(Level 3), -4(Level 3), -5(Level 3,4), -6(Level 3), -8(Level 4), -11			

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SPECIFICATION				MODELS			
		Notes	Unit	HWS600-12-27316	HWS600-15-27317	HWS600-24-27318	HWS600-48-27319
38	Weight (Typ.)	(*16)		1.6kg (-RKW adapter/mounting plate extra)			
39	Size (W x H x D)		mm	100 x 82 x 165 (Refer to Outline Drawing)			
			in.	3.94 x 3.23 x 6.5 (Refer to Outline Drawing)			

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

(*1) Refer to adjustment type (see item 10) or refer to operation manual

(*2) ( ): Peak output current at 200VAC. Operating time at peak output is less than 10sec, duty is less than 35%.

(*3) At 100/200VAC, Ta=25°C and maximum output power.

(*4) For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC(50/60Hz).

(*5) Not applicable for the Inrush Current to Noise Filter for less than 0.2ms. Inrush Current is 30A(Typ) when PFHC start-up.

(*6) Output Voltage can be changed by adjusting either : internal trim-pot, external resistor 5-20kOhms,external voltage 0-6V; refer to manual

(*7) Measure with JEITA RC-9131A probe, Bandwidth of scope :100MHz.

(*8) 85 - 265VAC, constant load.

(*9) No load - Full load, constant input voltage.

(*10) Constant current limit with automatic recovery.Avoid to operate at over load or short circuit condition for more than 30seconds.

(*11) OVP circuit will shut the output down, manual reset (CNT reset or Re-power on).

(*12) At 100/200VAC, nominal output voltage and maximum output current.

(*13) Measured by the each measuring method of UL, CSA, EN and DENAN(at 60Hz), Ta=25°C.

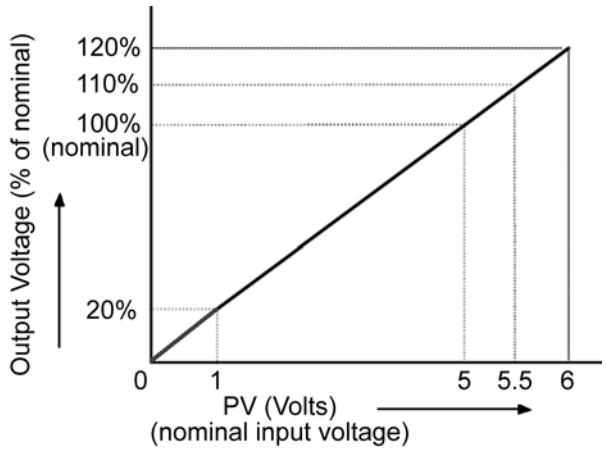
(*14) Ratings - Derating at standard mounting. Refer to output derating curve.(A232-01-02_)
- Load (%) is percent of maximum output power or maximum output current, whichever is greater.

(*15) As for DENAN, designed to meet at 100VAC.

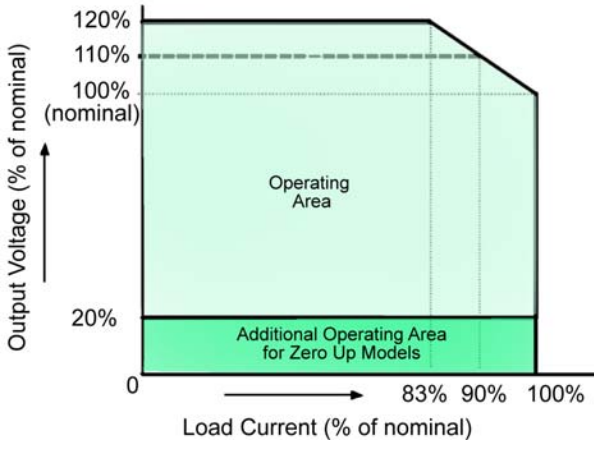
(*16) Consult factory for all the factory options weights :RKW mounting plate, RKW adapter bracket

KEPCO HWS suffixes

- / 27316 or /02xxxx internal trimpot adjust 80-120% nominal; 0-6V program voltage input to adjust output 0-120% of nominal ;external trimpot
- /PV 1-6V program voltage input to adjust output 20-120% of nominal (20-110% for 48V) (12V-48V models only)
- /HD 40 to +71(74)°C operation, conformally coated PCBs
- /ME Medical . UL60601-1, EN60950-1 medical certifi cation
- /RY ISA 12.12.01 (UL1604) - Class 1 Div 2 with dry contact relay DC Good signal (300W, 600W and 1500W 24V output models only, no UL508 certification, no remote on/off function.)
- /Ex Same as /RY factory adjusted to nominal voltage with internal trimpot
- /RKW include mounting bracket and I/0 connector exact drop in replacement for RKW series



OUTPUT VOLTAGE VS. PV VOLTAGE



OUTPUT VOLTAGE VS. LOAD CURRENT