

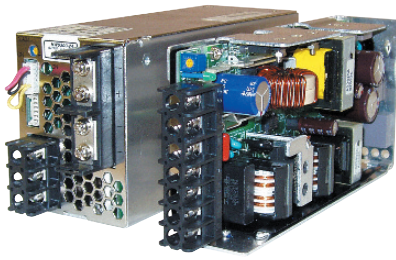
Технические характеристики на источники питания AC/DC серии HWS-HD

По вопросам продаж и поддержки обращайтесь:

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Брянск (4832)59-03-52
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Тула (4872)74-02-29
Уфа (347)229-48-12
Ярославль (4852)69-52-93



HWS30-1500/HD Series

Single Output Industrial
Power Supplies

- Limited Lifetime Warranty
- -10°C to +71°C Operation (-40°C start up)
- Universal Input (85 - 265VAC)
- Conformally coated PCB's
- RoHS Compliant Design

Key Market Segments & Applications

Factory Automation
Test & Measurement
LED Displays

HWS30-1500/HD Features and Benefits

Features

- Limited Lifetime Warranty
- Conformally coated PCB's
- Wide Range AC Input

Benefits

- Lower Cost of Ownership
- Operates in Harsh Environments
- Supports Global Use

Specifications

Specifications							
MODELS		HWS30 HWS50	HWS100 HWS150	HWS300	HWS600	HWS1000	HWS1500
ITEMS							
Input Voltage range (47-63Hz)		85 - 265VAC or 120 - 370VDC			85 - 265VAC or 120 - 330VDC		
Input Current (Typ) (1)	A	0.8 / 0.4	1.3 / 0.65	4.1 / 2.1	8.1 / 3.9	13.5 / 7.0	19 / 10
	-	0.7 / 0.35	1.9 / 0.95				
Inrush Current (1)	A	14 / 28			20 / 40		
Power Factor	-	Meets EN61000-3-2					
Temperature Coefficient	-	<0.02%/°C					
Overcurrent Protection	-	>104%					
Overvoltage Protection	V	Yes (See table on page 2)					
Hold Up Time (Typ)	ms	20					
Leakage Current (60Hz)	mA	<0.5mA			<0.75mA		<1.2mA
Remote Sense	-	No		Yes			
Indicator	-	Green LED = ON					
Remote On/Off	-	No		Yes (Isolated from output)			
Parallel operation	-	No		Single wire connection (5 units max)			
DC Good	-	No		Yes			
Operating Temperature & Derating (operation to +74°C - contact factory)		HWS30-150: -10°C to +71°C, (-10 to +50°C: 100%, +60°C: 60%, +71°C: 20%) HWS300-1500: -10°C to +71°C, (-10 to +50°C: 100%, derate linearly to 50% load from +50 to +71°C) Guaranteed start up at -40°C (see specification sheets on website for details and derating)					
Storage Temperature		-40°C to +85°C					
Humidity (non condensing)	-	Operating: 30-90%RH (10 - 90% on HWS300-1500), Non operating 10-95%RH					
Cooling	-	Convection			Internal fan		
Withstand Voltage (2)	-	Input to Ground 2kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.					
Isolation Resistance	-	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC, >10M Output to remote on/off 100VDC					
Vibration (non operating)	-	MIL-STD-810F 514.5 Category 4, 10					
Shock (in packaging)	-	MIL-STD-810F 516.5 Procedure I, VI (<196.1m/s²)					
Safety Agency Approvals (3)	-	UL60950-1, CSA60950-1, EN60950-1, EN50178, CE Mark					
Line Dip	-	Complies with SEMI F47 (200VAC line only)					
Conducted & Radiated EMI	-	EN55011 / EN55022-B, FCC-B, VCCI-B (Curve A for HWS1500)					
Immunity	-	IEC61000-4-2 (Level 2,3), -3, -4, -6, (Level 3), -5, -8 (Level 4), -11					
Weight (Typ)	g	220 280	450 500	1000	1600	3200	3800
Size (WxHxD)	mm	26.5 x 82 x 95 26 x 82 x 120	28 x 82 x 160 37 x 82 x 160	61 X 82 X 165	100 X 82 X 165	126.5 X 82 X 240	126.5 X 82 X 280
Warranty		Limited Lifetime Warranty					

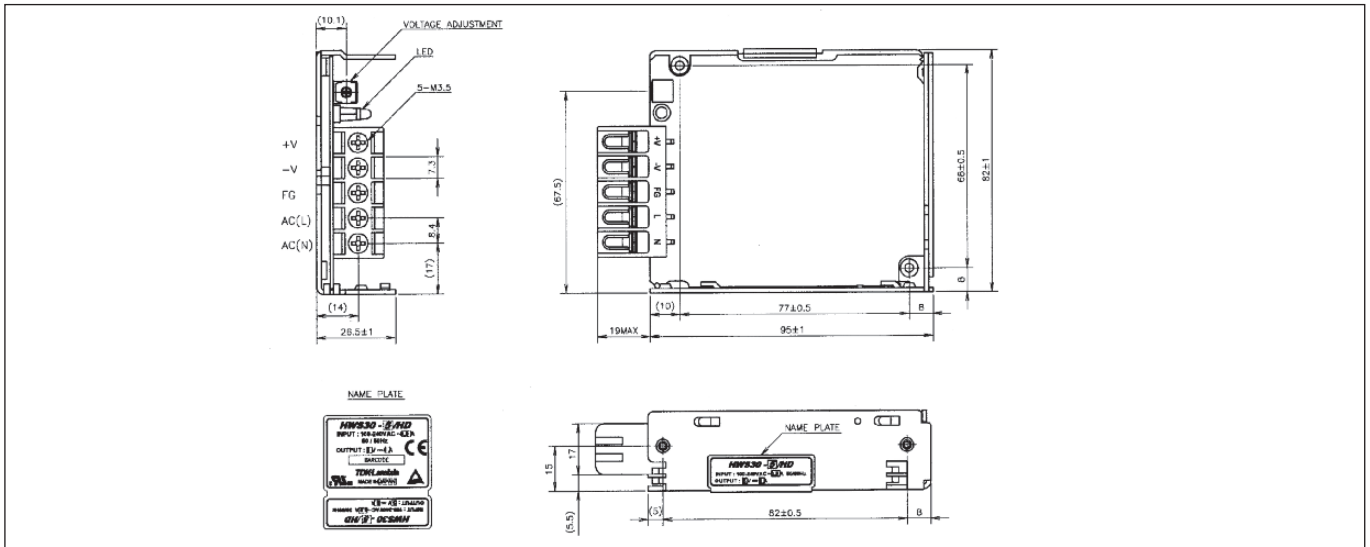
Notes: (1) 100/200VAC input (2) HWS300-600 2.5kVAC Input to ground (3) Consult Sales Office for use under DC Input conditions

Model Selector												
Model	Voltage (V)	Adjust Range (V)	Max Curr. (A)	Peak ⁽³⁾ Curr. (A)	Max. Power (W)	Peak ⁽³⁾ Power (W)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Over voltage (V)	Efficiency ⁽¹⁾ typ %	
HWS50-3/HD	3.3	2.97 - 3.96	6		20		40	20	120	4.13 - 4.95	70/73	
HWS50-3/HD	3.3	2.97 - 3.96	10		33		40	20	120	4.13 - 4.95	76/78	
HWS100-3/HD	3.3	2.97 - 3.96	20		66		40	20	120	4.13 - 4.95	78/81	
HWS150-3/HD	3.3	2.97 - 3.96	30		99		40	20	120	4.13 - 4.95	78/81	
HWS300-3/HD	3.3	2.64 - 3.96	60		198		30	20	120	4.13 - 4.95	74/77	
HWS600-3/HD	3.3	2.64 - 3.96	120		396		30	20	120	4.13 - 4.95	75/78	
HWS1000-3/HD	3.3	2.64 - 3.96	200		660		40	20	120	4.12 - 4.62	71/73	
HWS1500-3/HD	3.3	2.64 - 3.96	300		990		60	36	200	4.12 - 4.62	72/75	
HWS30-5/HD	5	4.0 - 6.0	6		30		40	20	120	6.25 - 7.25	77/80	
HWS50-5/HD	5	4.0 - 6.0	10		50		40	20	120	6.25 - 7.25	82/84	
HWS100-5/HD	5	4.0 - 6.0	20		100		40	20	120	6.25 - 7.25	83/86	
HWS150-5/HD	5	4.0 - 6.0	30		150		40	20	120	6.25 - 7.25	83/86	
HWS300-5/HD	5	4.0 - 6.0	60		300		30	20	120	6.25 - 7.25	79/82	
HWS600-5/HD	5	4.0 - 6.0	120		600		30	20	120	6.25 - 7.25	80/83	
HWS1000-5/HD	5	4.0 - 6.0	200		1000		30	20	120	6.25 - 7.0	76/78	
HWS1500-5/HD	5	4.0 - 6.0	300		1500		60	36	200	6.25 - 7.0	77/81	
HWS1000-6/HD	6	4.8 - 7.2	167		1002		30	20	150	7.5 - 8.4	79/81	
HWS1500-6/HD	6	4.8 - 7.2	250	300	1500	1800	60	36	200	6.25 - 7.0	79/82	
HWS1000-7/HD	7.5	6.0 - 9.0	134	160	1005	1200	30	20	150	9.37 - 10.5	80/82	
HWS1500-7/HD	7.5	6.0 - 9.0	200	240	1500	1800	60	40	200	9.37 - 10.5	81/83	
HWS30-12/HD	12	9.6 - 14.4	2.5		30		96	48	150	15.0 - 17.4	81/83	
HWS50-12/HD	12	9.6 - 14.4	4.3		51.6		96	48	150	15 - 17.4	81/83	
HWS100-12/HD	12	9.6 - 14.4	8.5		102		96	48	150	15 - 17.4	83/86	
HWS150-12/HD	12	9.6 - 14.4	13		156		96	48	150	15 - 17.4	83/86	
HWS300-12/HD	12	9.6 - 14.4	27		324		72	48	150	15 - 17.4	80/83	
HWS600-12/HD	12	9.6 - 14.4	53		636		72	48	150	15 - 17.4	80/83	
HWS1000-12/HD	12	9.6 - 14.4	88	100	1056	1200	72	48	150	15 - 17.4	82/85	
HWS1500-12/HD	12	9.6 - 14.4	125		1500		72	48	150	15 - 17.4	82/85	
HWS30-15/HD	15	12.0 - 18.0	2		30		120	60	150	18.8 - 21.8	81/84	
HWS50-15/HD	15	12.0 - 18.0	3.5		52.5		120	60	150	18.8 - 21.8	81/83	
HWS100-15/HD	15	12.0 - 18.0	7		105		120	60	150	18.8 - 21.8	83/86	
HWS150-15/HD	15	12.0 - 18.0	10		150		120	60	150	18.8 - 21.8	83/86	
HWS300-15/HD	15	12.0 - 18.0	22		330		90	60	150	18.8 - 21.8	80/83	
HWS600-15/HD	15	12.0 - 18.0	43		645		90	60	150	18.8 - 21.8	81/84	
HWS1000-15/HD	15	12.0 - 18.0	70	80	1050	1200	90	60	150	18.7 - 21.8	83/85	
HWS1500-15/HD	15	12.0 - 18.0	100		1500		90	60	150	18.7-21.8	83/87	
HWS30-24/HD	24	19.2 - 28.8	1.3		31.2		192	96	200	30 - 34.8	83/86	
HWS50-24/HD	24	19.2 - 28.8	2.2		52.8		192	96	150	30 - 34.8	82/84	
HWS100-24/HD	24	19.2 - 28.8	4.5		108		192	96	150	30 - 34.8	84/87	
HWS150-24/HD	24	19.2 - 28.8	6.5		156		192	96	150	30 - 34.8	85/88	
HWS300-24/HD	24	19.2 - 28.8	14	16.5	336	396	144	96	150	30 - 34.8	82/85	
HWS600-24/HD	24	19.2 - 28.8	27	31	648	744	144	96	150	30 - 34.8	82/85	
HWS1000-24/HD	24	19.2 - 28.8	46	58.5	1104	1404	144	96	150	30 - 34.8	85/87	
HWS1500-24/HD	24	19.2 - 28.8	65/70	105	1560/1680	2520 ⁽¹⁾	144	96	200	30 - 34.8	84/88	
HWS1000-36/HD	36	28.8 - 43.2	30.7	39	1104	1404	150	144	200	45 - 49.7	85/88	
HWS1500-36/HD	36	28.8 - 43.2	42/46.5	70	1512/1674	2520 ⁽¹⁾	150	144	200	45 - 49.7	84/88	
HWS30-48/HD	48	38.4 - 52.8	0.65		31.2		384	192	200	55.2 - 64.8	82/83	
HWS50-48/HD	48	38.4 - 52.8	1.1		52.8		384	192	200	55.2 - 64.8	83/85	
HWS100-48/HD	48	38.4 - 52.8	2.1		100.8		384	192	200	55.2 - 64.8	84/87	
HWS150-48/HD	48	38.4 - 52.8	3.3		158.4		384	192	200	55.2 - 64.8	85/88	
HWS300-48/HD	48	38.4 - 52.8	7		336		288	192	350	55.2 - 64.8	82/85	
HWS600-48/HD	48	38.4 - 52.8	13		624		288	192	350	55.2 - 64.8	83/86	
HWS1000-48/HD	48	38.4 - 52.8	23	29.2	1104	1404	288	192	200	55.2 - 60.0	86/88	
HWS1500-48/HD	48	38.4 - 52.8	32		1536		288	192	200	55.2 - 64.8	86/90	
HWS1000-60/HD	60	48.0 - 66	18.4	23.4	1104	1404	360	240	400	69.0 - 75.0	85/88	
HWS1500-60/HD	60	48.0 - 66	28	42	1536	2520	360	240	400	69.0 - 75.0	86/90	

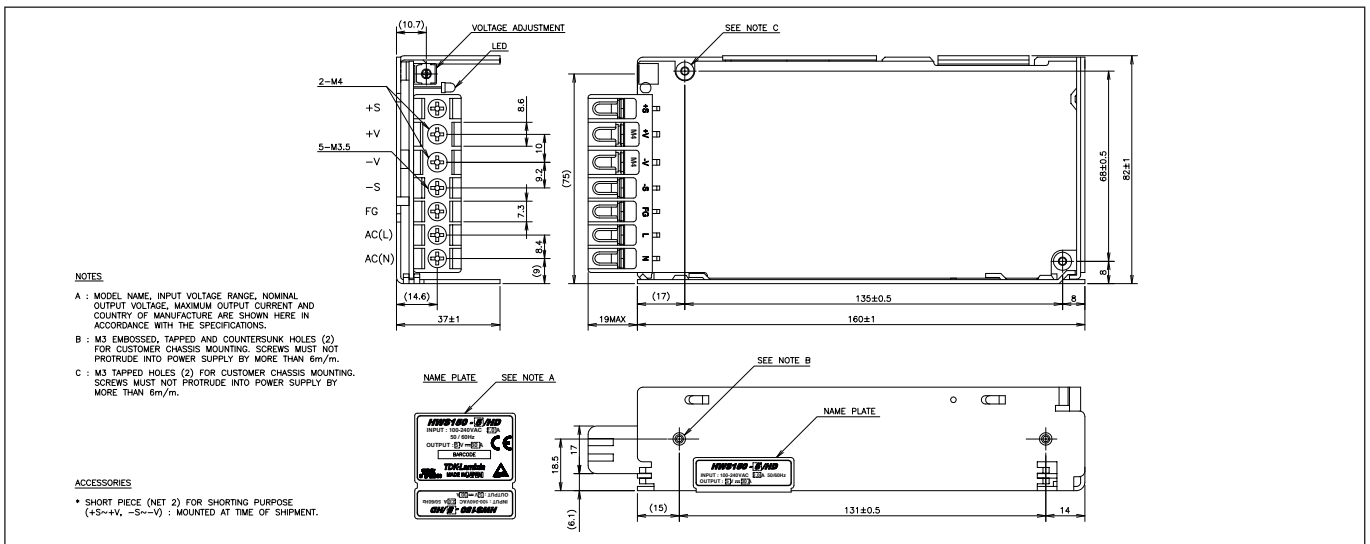
Options	
Suffix	Description
Blank	No cover (except HWS300-1500 cover fitted as standard)
/A	Cover fitted (eg HWS100-24/HDA) Deratings apply

Notes: (3) Peak load for 10s maximum on time, 35% duty cycle at >200V input

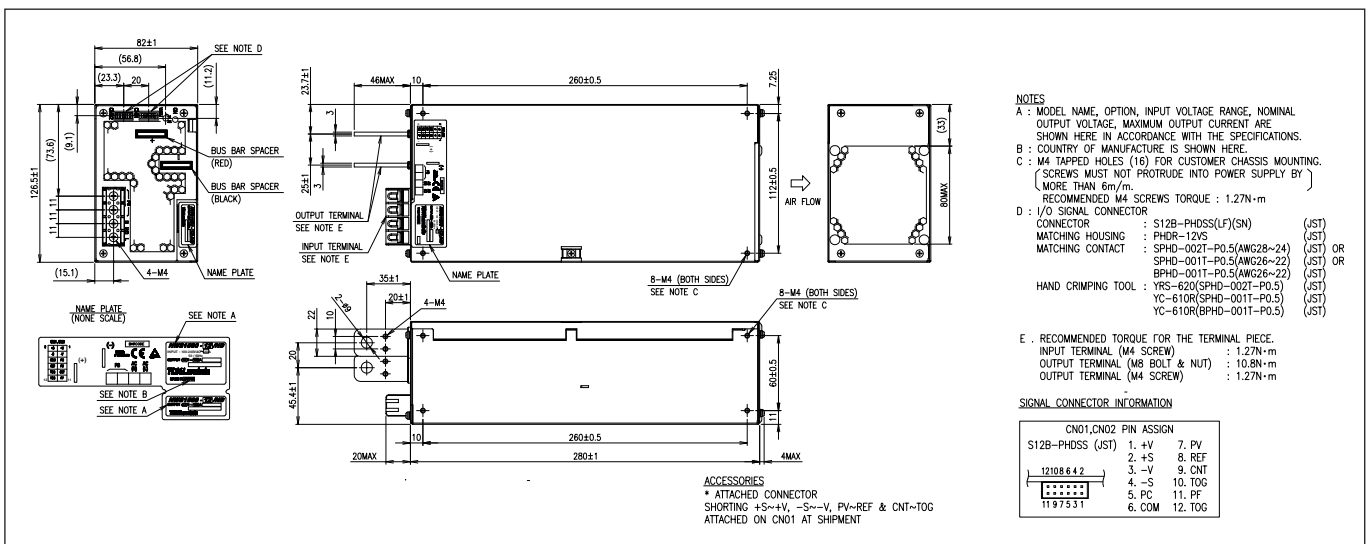
Outline Drawing HWS30 Series



Outline Drawing HWS150 Series



Outline Drawing HWS1500 Series



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