



- Lifetime Warranty
- 300% Peak Power Capability
- Small Package Size
- Universal Input (85 - 265VAC)
- High Efficiency

HWS300P & 600P Series

Peak Power Industrial Power Supplies

Key Market Segments & Applications

Factory Automation
 Process Control
 Semiconductor Fabrication
 Motor and Pump Drives

HWS300P & 600P Features and Benefits

Features

- Limited Lifetime Warranty
- Peak Power Capability
- High Efficiency

Benefits

- Lower Cost of Ownership
- Lower cost, smaller size
- Easier system cooling, less power used

Specifications

ITEMS	MODEL	HWS300P	HWS600P
Input Voltage range	-	85 - 265VAC (47 - 63Hz) or 120 - 330VDC	
Input Current (Typ)	(1) A	3.6/1.9	7.2/3.7
Inrush Current	(1) A	20 / 40	
Power Factor	-	Meets EN61000-3-2	
Temperature Coefficient	-	<0.02%/°C	
Overcurrent Protection	-	See table on page 2 (Recycle AC or remote on/off to reset)	
Overvoltage Protection	V	See table on page 2 (Recycle AC or remote on/off to reset)	
Hold Up Time (Typ)	ms	20	
Efficiency	(1) %	84 / 87	
Leakage Curr. (@240VAC, 60Hz)	mA	<0.75mA (Typically 0.2mA at 100VAC)	
Remote Sense	-	No	
Indicator	-	Green LED = ON	
Remote on/off	-	Yes	
Line Regulation	mV	24V: 96mV, 36V: 144mV, 48V: 192mV	
Load Regulation	mV	24V: 144mV, 36V: 216mV, 48V: 288mV	
Ripple & Noise	mV	24V: 150mV, 36V: 200mV, 48V: 350mV	
Parallel operation	-	No	Yes, up to 2 units
DC Good	-	Yes	
Operating Temperature	-	-10°C to +70°C, derate linearly to 50% load from 50°C to 70°C	
Storage Temperature	-	-30°C to +85°C	
Humidity (non condensing)	-	Operating: 10 - 90%RH, Non operating 10 - 95%RH	
Cooling	-	Internal fan	
Withstand Voltage	-	Input to Ground 2.5kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.	
Isolation Resistance	-	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6m/s ² constant X, Y, Z 1 hour	
Shock	-	< 196.1 m/s ²	
Safety Agency Certification	-	UL60950-1, CSA60950-1, EN60950-1, EN50178, CE Mark	
Line Dip	-	Complies with SEMI F47 (200VAC line only)	
Conducted & Radiated EMI	-	EN55011 / EN55022, FCC VCCI Class B	
Immunity	-	IEC61000-4-2, -3, -4, -6 (Level 3), -5, -8 (Level 4), -11	
Weight (Typ)	g	1,000	1,600
Size (WxHxD)	mm	61 x 82 x 165	100 x 82 x 165
Warranty	-	Lifetime Warranty (See TDK-Lambda's terms & conditions)	

Notes: (1) 100/200VAC

Model Selector

Model	Voltage V	Adjust Range V	Max Avg. Current A	Max Avg. Power W	Peak Current A (1,2)	Max Peak Power W (1)	Overcurrent Minimum A	Overvoltage V
HWS300P-24	24V	19.2 - 26.4	12.5	300	21 / 42	504 / 1008	21.4 / 42.8	27.6 - 32.4
HWS600P-24	24V	19.2 - 26.4	25	600	40.5 / 83	972 / 1992	41.3 / 84.6	27.6 - 32.4
HWS300P-36	36V	28.8 - 39.6	8.4	302.4	14 / 28	504 / 1008	14.3 / 28.6	41.4 - 48.6
HWS600P-36	36V	28.8 - 39.6	16.7	601.2	27 / 55.5	972 / 1998	27.5 / 56.6	41.4 - 48.6
HWS300P-48	48V	38.4 - 52.8	6.3	302.4	10.5 / 21	504 / 1008	10.7 / 21.4	55.2 - 64.8
HWS600P-48	48V	38.4 - 52.8	12.5	600	20 / 41.5	960 / 1992	20.4 / 42.3	55.2 - 64.8

Notes
 (1) 100/200VAC
 (2) 200-265VAC Input, 5s maximum on time up to 35% duty cycle (see instruction manual)

Outline Drawing HWS300P

SIGNAL CONNECTOR INFORMATION

ONT PIN ASSIGN
 SBB-PH05S(50)

NAME PLATE DETAILS

== ACCESSORIES ==
 * COVER FOR BARRIER TERMINAL STRIP -----1 (ATTACHED ON TERMINAL AT SHIPMENT)
 * SHORT PIECE -----1 (SHORTING ONT---TOG ATTACHED ON ONT AT SHIPMENT)

== SIGNAL CONNECTOR USED ==

PART DESCRIPTION	PART NAME	MANUFACT
PIN HEADER	SBB-PH05S	JST

== MATCHING HOUSINGS , PINS & TOOL ==

PART DESCRIPTION	PART NAME	MANUFACT
SOCKET HOUSING	PHDR-08VS	JST
TERMINAL PINS	SPHD-002T-P0.5(AWG28-24) SPHD-001T-P0.5(AWG26-22)	JST
HAND CRIMPING TOOL	YRS-620(SPHD-002T-P0.5) YC-610R(SPHD-001T-P0.5)	JST

Outline Drawing HWS600P

SIGNAL CONNECTOR INFORMATION

ONT PIN ASSIGN
 SBB-PH05S(50)

NAME PLATE DETAILS

== ACCESSORIES ==
 * COVER FOR BARRIER TERMINAL STRIP -----1 (ATTACHED ON TERMINAL AT SHIPMENT)
 * SHORT PIECE -----1 (SHORTING ONT---TOG ATTACHED ON ONT AT SHIPMENT)

== SIGNAL CONNECTOR USED ==

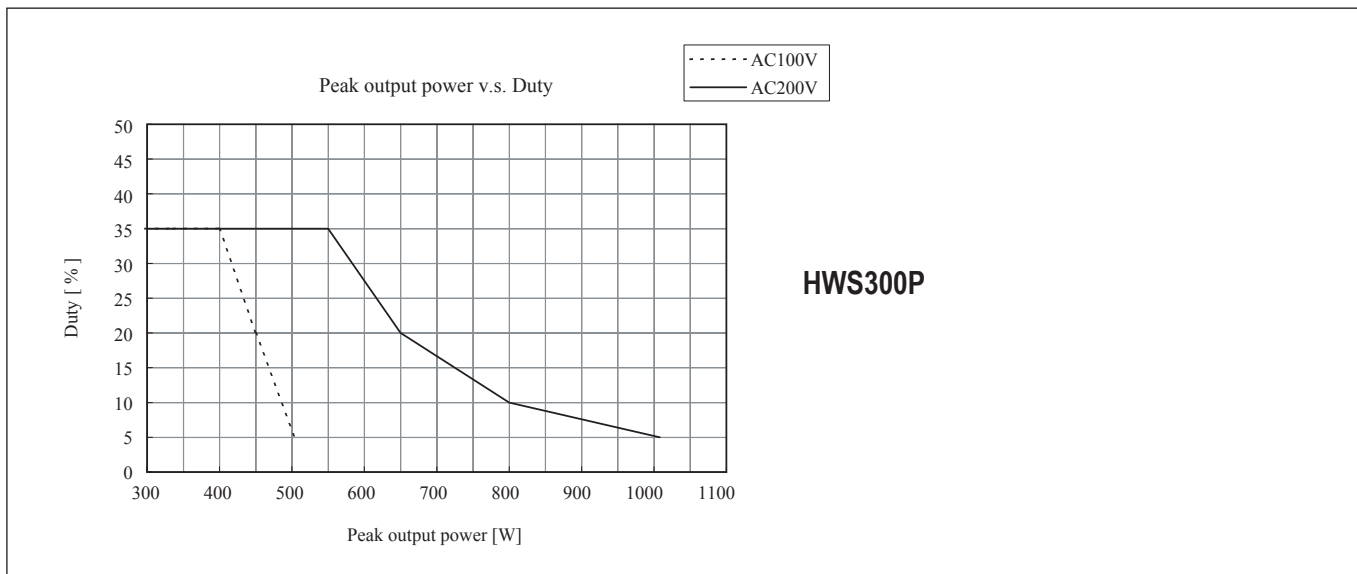
PART DESCRIPTION	PART NAME	MANUFACT
PIN HEADER	SBB-PH05S	JST

== MATCHING HOUSINGS , PINS & TOOL ==

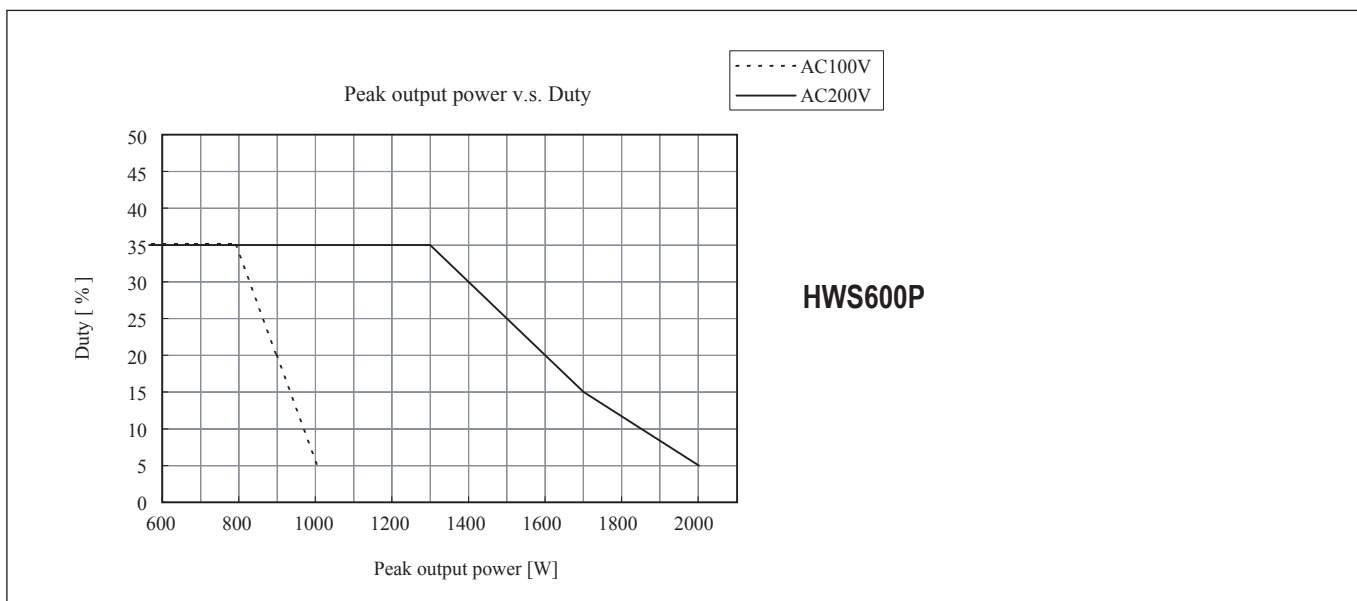
PART DESCRIPTION	PART NAME	MANUFACT
SOCKET HOUSING	PHDR-08VS	JST
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HAND CRIMPING TOOL	YRS-620(SPHD-002T-P0.5) YC-610R(SPHD-001T-P0.5)	JST

== NOTES ==
 A : MODEL NAME, NOMINAL OUTPUT VOLTAGE AND MAXIMUM OUTPUT CURRENT ARE SHOWN IN THE NAME PLATE IN ACCORDANCE WITH THE SPECIFICATIONS.
 B : M4 TAPPED HOLES (Ø) FOR CUSTOMER CHASSIS MOUNTING. (SCREW PENETRATION DEPTH 6m/m MAX.)

HWS300P Peak Output Power vs. Duty Cycle



HWS600P Peak Output Power vs. Duty Cycle



Options

Suffix	Description
Blank	HWS300-1500 cover is fitted as standard
/A	Not applicable

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