

# HWS300-600 SERIES

AC / DC Single Output: 300 - 600 Watts



## Features

- 5<sup>th</sup> Generation design "Flagship Product"
- Ultra compact
- **Medical Grade Option:** -ME to model
- **Industrial Grade Option:** -HD to model
- Universal Input 85 ~ 264VAC
- Short circuit protection and OVP
- Harmonic correction EN61000-3-2 with PFC
- EMC: EN55022 CE marked
- Immunity: EN61000-4
- International safety approvals
- LED indicator
- Wide voltage adjustment
- Suitable for a wide range of telecom and industrial applications

## Specifications:

<b>Input Voltage</b>	85 ~ 264VAC ( 120 ~ 370VDC )
<b>Input Current</b>	HWS300: 4.0 ~ 2.0A @ 115 ~ 230VAC HWS600: 8.0 ~ 4.0A @ 115 ~ 230VAC
<b>Power Factor</b>	0.99 ~ 0.95 @ 115 ~ 230VAC
<b>Harmonics</b>	EN61000-3-2
<b>Output Power</b>	300 ~ 600 watts
<b>Efficiency</b>	Model dependent: 78 ~ 86%
<b>Output Voltage</b>	See table
<b>Ripple &amp; Noise</b>	Model dependent: 120 ~ 350mV (3.3V ~ 48V output )
<b>Line Regulation</b>	Typically $\pm 0.4\%$
<b>Load Regulation</b>	Typically $\pm 0.6\%$
<b>Temp Co-efficient</b>	0.02% per °C
<b>Overload Protection</b>	3-5V: constant current limiting, hiccup mode with auto recovery 12-48V: Constant current limiting with auto recovery
<b>Overvoltage Protection</b>	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
<b>Over temperature Protection</b>	OtP will shutdown unit. Recycle AC power after 30 seconds to restart

<b>Hold-Up time</b>	Typically 20ms
<b>Parallel Operation</b>	Yes with power share
<b>Remote Sense</b>	Yes
<b>Remote ON/OFF</b>	Yes
<b>Power Fail Signal</b>	Yes, open collector output
<b>Indicator</b>	LED for DC Ok
<b>Operating Temp.</b>	-10°C to +50°C @ 100% load, +70°C @ 50% load
<b>Humidity</b>	10 ~ 90% RH no dewdrop
<b>Cooling</b>	Forced air by internal fan
<b>Isolation</b>	Input – Output: 3000VAC Input – Case: 2000VAC Output – Case: 500VAC
<b>Safety</b>	Approvals to: UL60950, EN60950, CSA60950, UL508, EN50178
<b>EMI</b>	EN55011 / EN55022 – B
<b>Immunity</b>	EN61000-4-2, -3, -4, -5, -6, -8, -11.
<b>Weight</b>	HWS300: 1kg HWS600: 1.6Kg
<b>Dimensions</b>	HWS300: 188 x 82 x 61mm HWS600: 188 x 100 x 82mm ( Includes terminals)

Model	Output V	Output A	Voltage Range	Power W
HWS300-3	3.0V	60A	2.64 ~3.96V	198W
HWS300-5	5.0V	60A	4.0 ~ 6.0V	300W
HWS300-12	12V	27A	9.6 ~14.4V	324W
HWS300-15	15V	22A	12.0 ~18.0V	330W
HWS300-24	24V	14A	19.2~ 28.8V	336W
HWS300-48	48V	7A	38.4 ~ 52.8V	336W

Model	Output V	Output A	Voltage Range	Power W
HWS600-3	3.0V	120A	2.64 ~3.96V	396W
HWS600-5	5.0V	120A	4.0 ~ 6.0V	600W
HWS600-12	12V	53A	9.6 ~14.4V	636W
HWS600-15	15V	43A	12.0 ~18.0V	645W
HWS600-24	24V	27A	19.2~ 28.8V	648W
HWS600-48	48V	13A	38.4 ~ 52.8V	624W

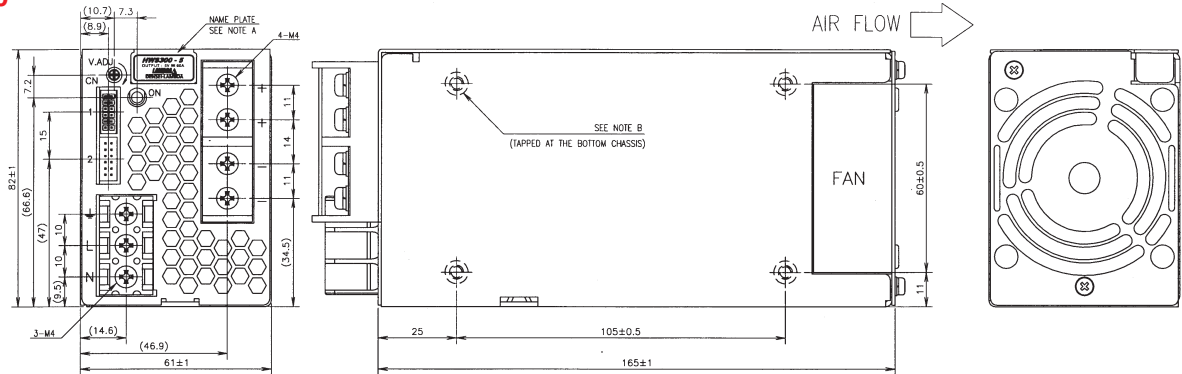
Instruction Manual and application notes available from our website.



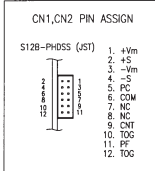
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## HWS300



### SIGNAL CONNECTOR INFORMATION



### == ACCESSORIES ==

- \* COVER FOR BARRIER TERMINAL STRIP -----1 (ATTACHED ON TERMINAL AT SHIPMENT)
- \* SHORT PIECE -----1 (SHORTING: +Vm --- +S, -Vm --- -S, CNT --- TOG (ATTACHED ON CN1 AT SHIPMENT))

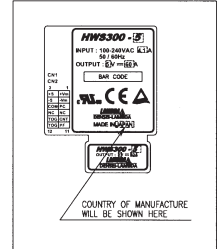
### == SIGNAL CONNECTOR USED ==

PART DESCRIPTION	PART NAME	MANUFACT
PIN HEADER	S12B-PHDSS	JST

### == MATCHING HOUSINGS, PINS & TOOL ==

PART DESCRIPTION	PART NAME	MANUFACT
SOCKET HOUSING	PHDR-12VS	JST
TERMINAL PINS	SPHD-002T-P0.5(AWG28-24) SPHD-001T-P0.5(AWG28-22)	JST
HAND CRIMPING TOOL	YRS-620(SPHD-002T-P0.5) YC-810R(SPHD-001T-P0.5)	JST

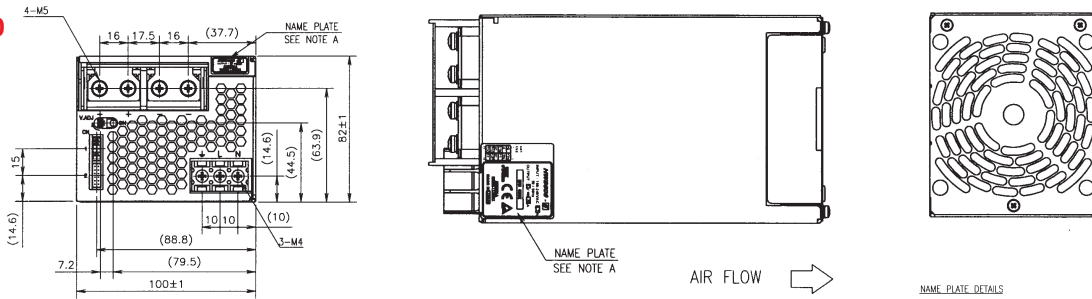
### NAME PLATE DETAILS



### == 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 (B) FOR CUSTOMER CHASSIS MOUNTING. (SCREW PENETRATION DEPTH 6m/m MAX.)

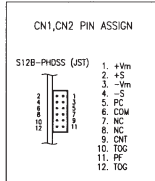
## HWS600



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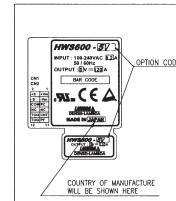
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