

HWS300/600 SERIES

AC/DC Single Output: 300 ~ 600 Watts



HWS600

HWS300

General Specifications

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

Features

- 5th 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
- **Instruction manual and further details available from our website.**

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

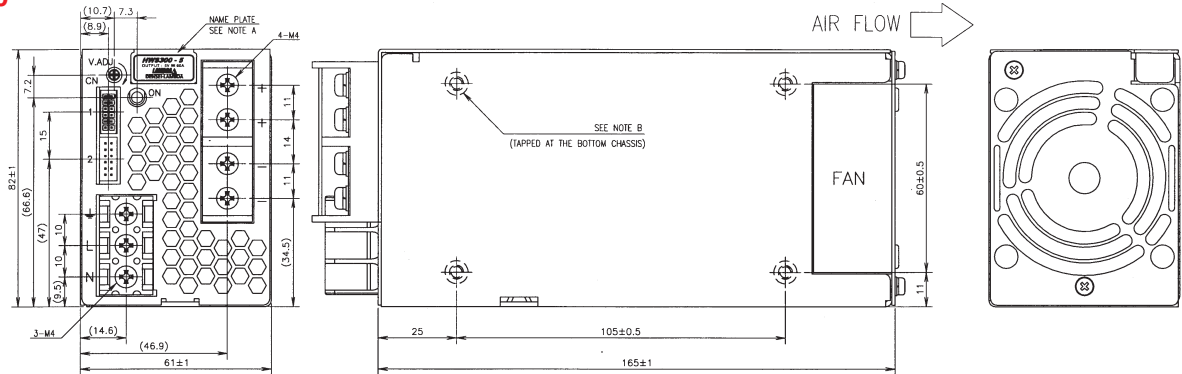
Model	Output V	Output A	Voltage Range	Power W
HWS600-3	3.0V	120A	2.64 ~3.96V	396W
HWS600-5	5.0V	120A	4.0 ~ 6.0V	600W
HWS600-12	12V	53A	9.6 ~14.4V	636W
HWS600-15	15V	43A	12.0 ~18.0V	645W
HWS600-24	24V	27A	19.2~ 28.8V	648W
HWS600-48	48V	13A	38.4 ~ 52.8V	624W



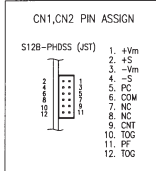
HWS300-600 SERIES

AC/DC Single Output: 300 - 600 Watts

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 CNT AT SHIPMENT))

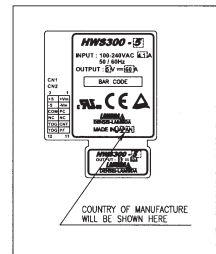
== SIGNAL CONNECTOR USED ==

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

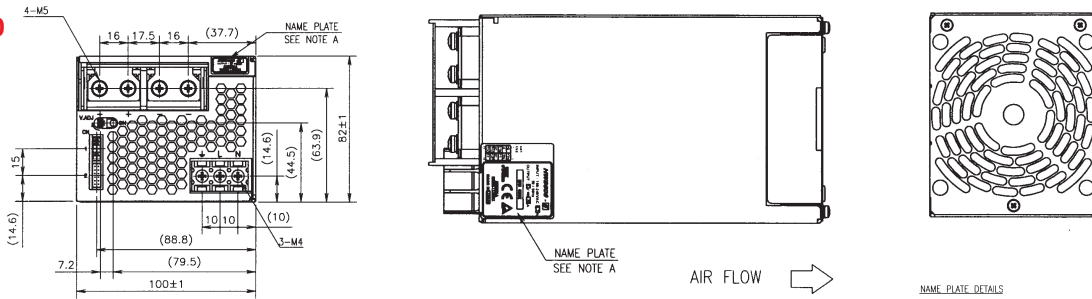
NAME PLATE DETAILS



== 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.)

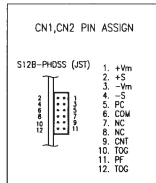
HWS600



== ACCESSORIES ==

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

SIGNAL CONNECTOR INFORMATION



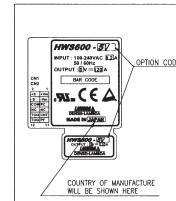
== SIGNAL CONNECTOR USED ==

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.)