

# HWS300 SERIES

AC/DC Power Supply Single Output: 300 Watts



## Features

- 5<sup>th</sup> Generation Design
- Universal input 85 - 265VAC
- 300 watts output power
- Output voltage adjustment
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2 & Power Factor 0.95
- EMC EN55022-B, Immunity to EN61000-4
- Remote ON / OFF, Remote Sense Standard
- Parallel Operation
- International safety approvals EN60950, UL60950
- Available as Medical Grade model

## Specifications

<b>Input Voltage</b>	85 ~ 264VAC ( 120 ~ 370VDC )
<b>Input Current</b>	4.0 ~ 2.1A @ 115 ~ 230VAC
<b>Power Factor</b>	0.99 ~ 0.95 @ 115 ~ 230VAC
<b>Harmonics</b>	EN61000-3-2
<b>Leakage Current</b>	<0.75mA, typically 0.2mA at 110VAC
<b>Output Power</b>	300 watts
<b>Efficiency</b>	Model dependent: 82 ~ 85%
<b>Output Voltage</b>	See table
<b>Ripple &amp; Noise</b>	Model dependent: 40 ~240mV ( 3.3V ~ 48V )
<b>Line Regulation</b>	Model dependent: 20 ~96mV ( 3.3V ~ 48V )
<b>Load Regulation</b>	Model dependent: 40 ~240mV ( 3.3V ~ 48V )
<b>Temp Co-efficient</b>	0.02% per °C
<b>Overload Protection</b>	3.3 /5V: Constant current limiting, with hiccup 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 Temp. 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 ( refer to manual )
<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 / Case: 3000VAC / 2000VAC Output – Case: 500VAC
<b>Safety</b>	Approvals: UL60950, EN60950-1, EN50178
<b>EMI</b>	EN55011 / EN55022 – B
<b>Immunity</b>	EN61000-4-2, -3, -4, -5, -6, -8, -11.
<b>Dimensions</b>	188 x 82 x 61mm 1Kg ( Includes terminals)

## Description

The **HWS300** series power supply, is a 5<sup>th</sup> generation design, aimed at providing high level of performance & reliability for a variety of high-end OEM projects.

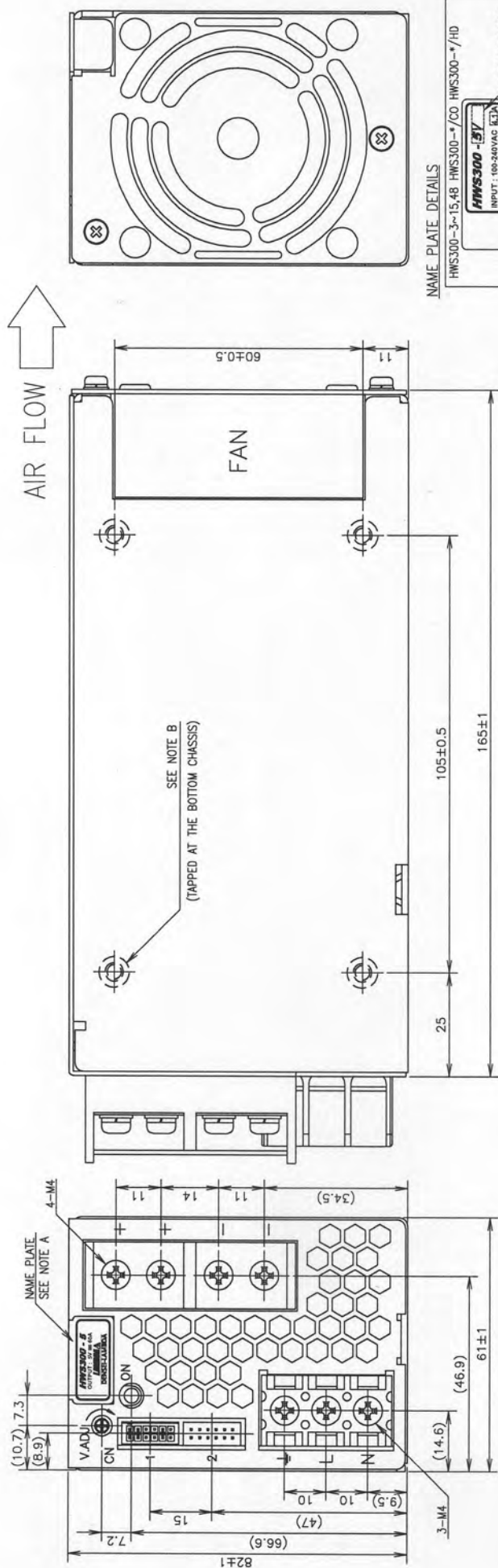
The wide output voltage adjustment and Constant Current limiting, provides design flexibility in many industrial applications.

Parallel operation with power share, allows a number of units to be connected in parallel for increased power or redundancy.

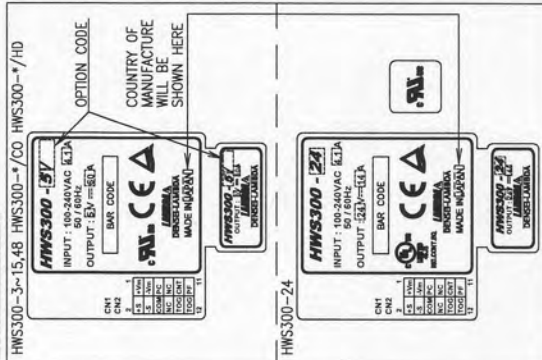
Model	Output		Voltage Range	Power W
	V	A		
<b>HWS300-3</b>	3.0V	60A	2.64 ~3.96V	198W
<b>HWS300-5</b>	5.0V	60A	4.0 ~ 6.0V	300W
<b>HWS300-12</b>	12V	27A	9.6 ~14.4V	324W
<b>HWS300-15</b>	15V	22A	12.0 ~18.0V	330W
<b>HWS300-24RY</b>	24V	14A	19.2~ 28.8V	336W
<b>HWS300-48</b>	48V	7A	38.4 ~ 52.8V	336W

**Instruction Manual and application notes  
available from our website.**

AIR FLOW 



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 (Ø) FOR CUSTOMER CHASSIS MOUNTING. (SCREW PENETRATION DEPTH 6m/m MAX.)

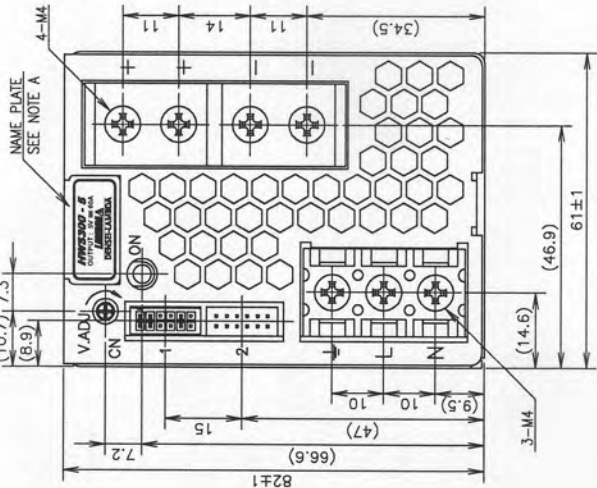
(unit : mm)

MODEL	HWS300
<b>DENSEI-LAMBDA</b>	

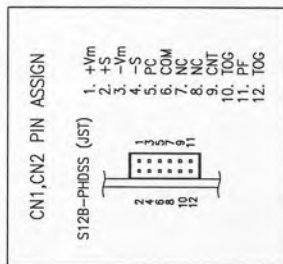
A231-02-01D

== OPTIONAL MODELS ==

MODEL	COATING
HWS300-*	—
HWS300-*/CO	○
HWS300-*/HD	○



SIGNAL CONNECTOR INFORMATION



== ACCESSORIES ==

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

== SIGNAL CONNECTOR USED ==

PART DESCRIPTION	PART NAME	MANUFACT
PIN HEADER	S12B-PH05S	JST
== MATCHING HOUSINGS , PINS & TOOL ==		
PART DESCRIPTION	PART NAME	MANUFACT
SOCKET HOUSING	PHDR-12VS	JST
TERMINAL PINS	SPHD-002T-PO.5(AWG28-24) SPHD-001T-PO.5(AWG26-22)	JST
HAND CRIMPING TOOL	YRS-620(SPHD-002T-PO.5) YC-610R(SPHD-001T-PO.5)	JST