

SWS300A SERIES

AC / DC Single Output: 300 Watts



Specifications

Input Voltage	85 ~ 264VAC (120 ~ 370VDC)
Input Current	3.6 ~ 1.8A @ 115 ~ 230VAC
Power Factor	0.99 ~ 0.95 @ 115 ~ 230VAC
Harmonics	EN61000-3-2
Output Power	300 watts
Efficiency	Model dependent: 67 ~ 85%
Output Voltage	See table
Ripple & Noise	Model dependent: 40 ~240mV (3.3V ~ 48V)
Line Regulation	Model dependent: 20 ~96mV (3.3V ~ 48V)
Load Regulation	Model dependent: 40 ~240mV (3.3V ~ 48V)
Temp Co-efficient	0.02% per °C
Overload Protection	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
Hold-Up time	Typically 20ms
Parallel Operation	NO
Operating Temp.	-10°C to +50°C @ 100% load, +65°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: UL60950, EN60950-1, EN50178
EMI	EN55011 / EN55022 – B
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11.
Dimensions	SWS300: 210 x 102 x 52mm 950g (Includes terminals)

Features

- Universal input 85 - 265VAC
- 300 watts output power
- Low cost solution for industrial applications.
- Output voltage adjustment
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2
- Power Factor 0.95
- EMC EN55022-B
- Immunity to EN61000-4
- International safety approvals EN60950, UL60950
- DC OK Led
- Suitable for use as Battery Charger
- Conformal coating option (add /C02) to model

Description

The **SWS300A** series power supply, is a new generation design, aimed at providing a low cost solution for a variety of industrial applications.

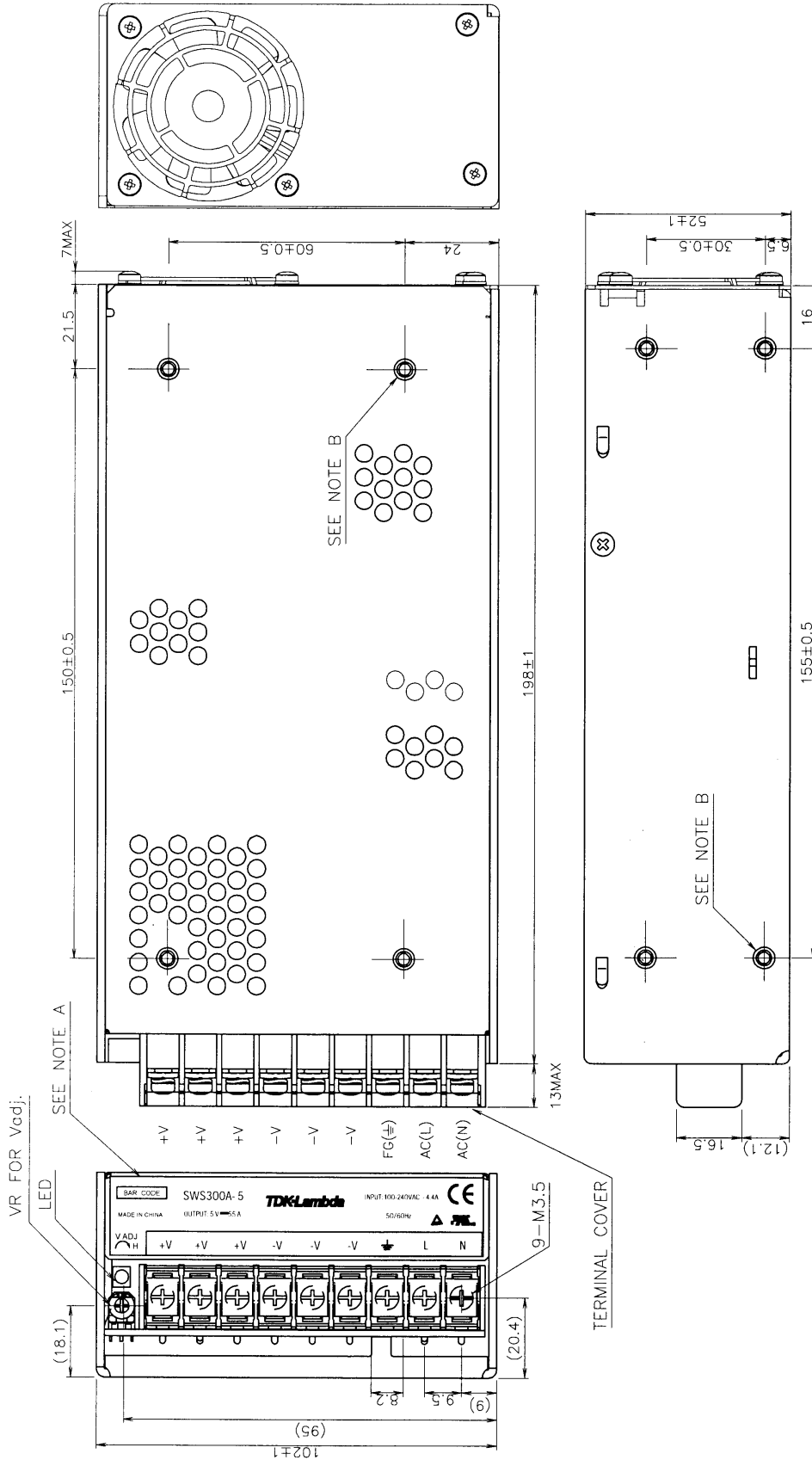
At the same time reliability is not compromised and comes with all the protection features expected from a power supply and compliance to the latest international Safety, EMC and Immunity standards.

The wide output voltage adjustment and Constant Current limiting, allows the SWS300A to be used in battery charging applications, providing a very cost effective solution.

Model	Output V A	Voltage Range	Power W
SWS300A-3	3.3V 55A	2.9 ~3.9V	181W
SWS300A-5	5.0V 55A	4.5 ~ 6.0V	275W
SW300A-7R5	7.5V 40A	6.0 ~ 9.0V	300W
SWS300A-12	12V 26A	9.6 ~13.2V	312W
SWS300A-15	15V 21A	13.20 ~18.6V	315W
SWS300A-24	24V 13A	20.0~ 28.8V	313W
SWS300A-28	28V 11A	22.4 ~33.6V	312W
SWS300A-36	36V 8.7A	28.8~40V	313W
SWS300A-48	48V 6.7A	40.0 ~ 57.6V	320W

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NOTES

- A: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.
- B: M4 EMBOSSED, TAPPED AND COUNTERSUNK HOLES (8) FOR CUSTOMER CHASSIS MOUNTING. SCREWS MUST NOT PROTRUDE INTO POWER SUPPLY BY MORE THAN 6mm/m.

(unit: .mm)	
MODEL NAME	SWS300A
TDK-Lambda	
CA768-02-01A	