

SWS300&600 Series

Single Output General Purpose Power Supplies



- ◆ Low cost
- ◆ Active Power Factor Correction
- ◆ Input Transient Protected IEC61000-4
- ◆ Enclosed

Key Market Segments & Applications

Factory Automation	Process Control, NC-Machining, Automotive, Packaging Equipment, Materials Handling, Chemical Processing, Robots
Test & Measurement	Burn-in & Test, Automated, Detection Test, Instrumentation, Measurement
Automated Service	Vending Machines, Elevators, Video Gaming, Point of Sale Equipment

SWS Features and Benefits

Feature	Benefit
◆ Meets IEC61000-4	◆ Greater reliability
◆ Global safety Approvals	◆ Supports Global Use
◆ Power Factor Corrected	◆ Supports Global Use
◆ Level B EMI	◆ Assists System Compliance

Specifications

ITEMS		MODEL	SWS300	SWS600
Input Voltage range	(1)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC	
Inrush Current (115 / 230VAC)	A	-	20 / 40	
Power Factor	-	-	Meets EN61000-3-2	
Input Current (100/200VAC)	A	-	3.6 / 1.8A	7.2 / 3.6A
Temperature Coefficient	-	-	<0.02%/°C	
Overcurrent Protection	--	-	>105%, Constant current style	
Overvoltage Protection	V	-	3.3V: 4.1-5.3V, 5V: 6.25-7.25V, 12V: 13.8-16.8V, 15V: 18.7-22.5V, 24V: 30-34.8V, 36V: 41.4-50.4V, 48V: 60-69.9V	
Overtemperature Protection	-	-	Yes, cycle AC to reset	
Hold Up Time (Typ)	ms	-	20ms at 115/230VAC	
Leakage Current (max)	mA	-	0.75mA	1.5mA
Remote Sense	-	-	None	Yes
Parallel Connection	-	-	None	Yes
Remote On/Off	-	-	None	Yes
AC Fail Signal	-	-	None	Yes, open collector output
LED Indicator	-	-	Green LED = On	
Operating Temperature	-	-	-10 to +65°C (See table for derating - model specific)	
Storage Temperature	°C	-	-30 to +85°C	
Operating Humidity	-	-	30 - 90% RH (non condensing)	
Storage Humidity	-	-	10 - 95% RH (non condensing)	
Cooling	-	-	Internal fan	
Withstand Voltage	-	-	I/P to Grnd 2kVAC, I/P to O/P 3kVAC, O/P to Grnd 500VAC, O/P to CNT 100VAC for 1 min	
Isolation Resistance	-	-	>100M at 25C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	-	10 - 55Hz (sweep for 1 min) 19.6m/s ² constant X, Y, Z 1 hour each plane	
Immunity	-	-	EN1000-4-2, -3, -4, -5, -6, -8, -11	
Safety Agency Approvals	-	-	UL60950, CSA60950, EN60950, EN50178, CE Mark	
Conducted & Radiated EMI	-	-	EN55011 / EN55022-B, FCC Class B	
Weight (Typ)	g	-	950	2000
Size (WxHxD)	mm	-	52 x 102 x 198	92 x 120 x 190
Warranty	yrs	-	Two Years	

Notes: (1) Derate linearly to 85% load from 115VAC to 85VAC input (derate to 90% load for SWS600-5)

Models

Model	Voltage	Adjust Range	Max Curr.	Load Reg mV	Line Reg mV	Ripple Noise	Eff. (3) (typ)%
SWS300-3	3V	2.97-3.96V	55	40	20	120	67/70
SWS300-5	5V	4.5-6V	55	40	20	120	76/79
SWS300-12	12V	9.6-13.2	26	96	48	120	77/80
SWS300-15	15V	13.2-18V	21	120	48	120	79/83
SWS300-24	24V	20-28.8	13	120	48	150	82/85
SWS300-36	36V	28.8-40V	8.7A	180	72	200	82/85
SWS300-48	48V	40-57.6	6.7	240	96	240	83/86
SWS600-3	3.3V	2.97-3.96V	55	40	20	120	69/71
SWS600-5	5V	4.5-6V	100 (2)	40	20	100	74/77
SWS600-12	12V	9.6-13.2	50	96	48	120	78/81
SWS600-15	15V	13.2-18V	40	120	48	120	80/83
SWS600-24	24V	20-28.8	25	120	48	150	81/84
SWS600-36	36V	28.8-40V	16.7	180	72	200	81/85
SWS600-48	48V	40-57.6	12.5	240	96	240	82/85

Notes:

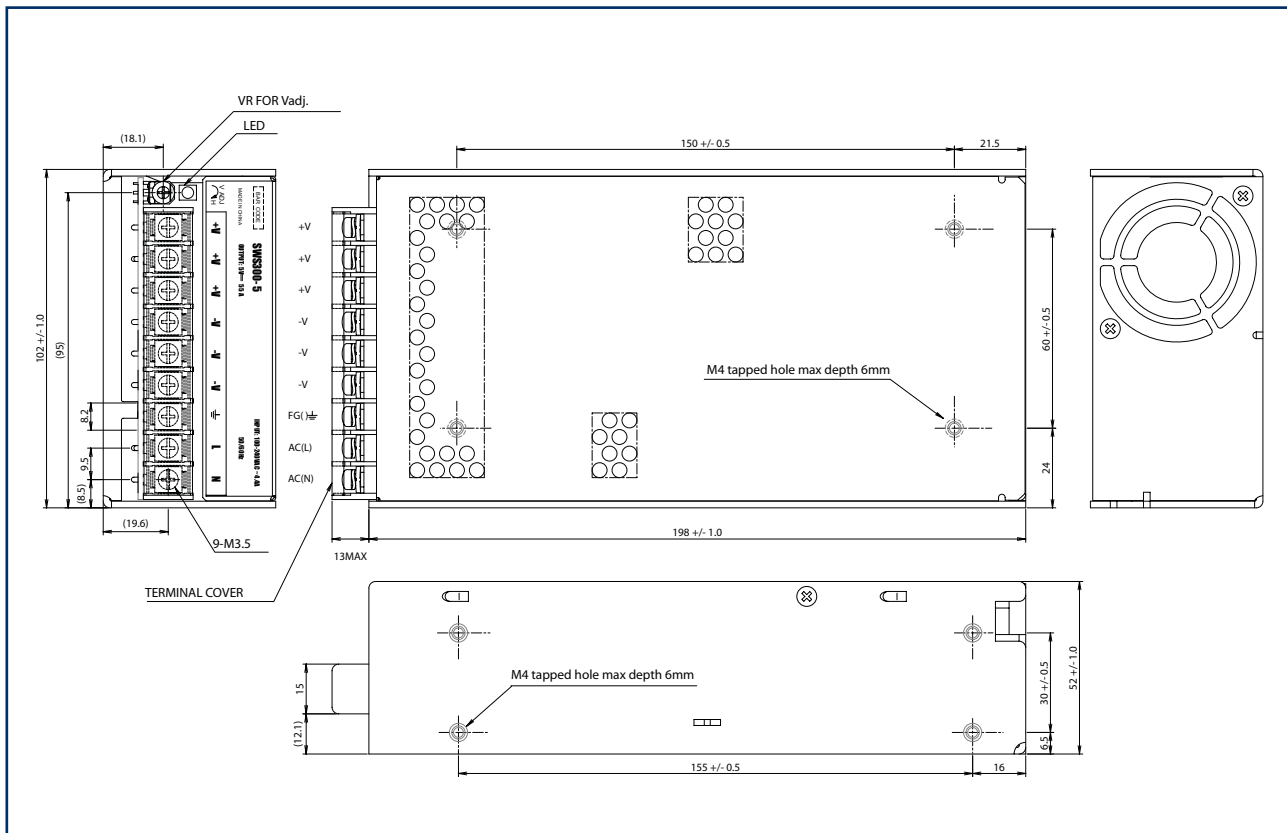
- (2) SWS600-5 has peak rating of 120A for 10s
- (3) 115/230VAC

Derating

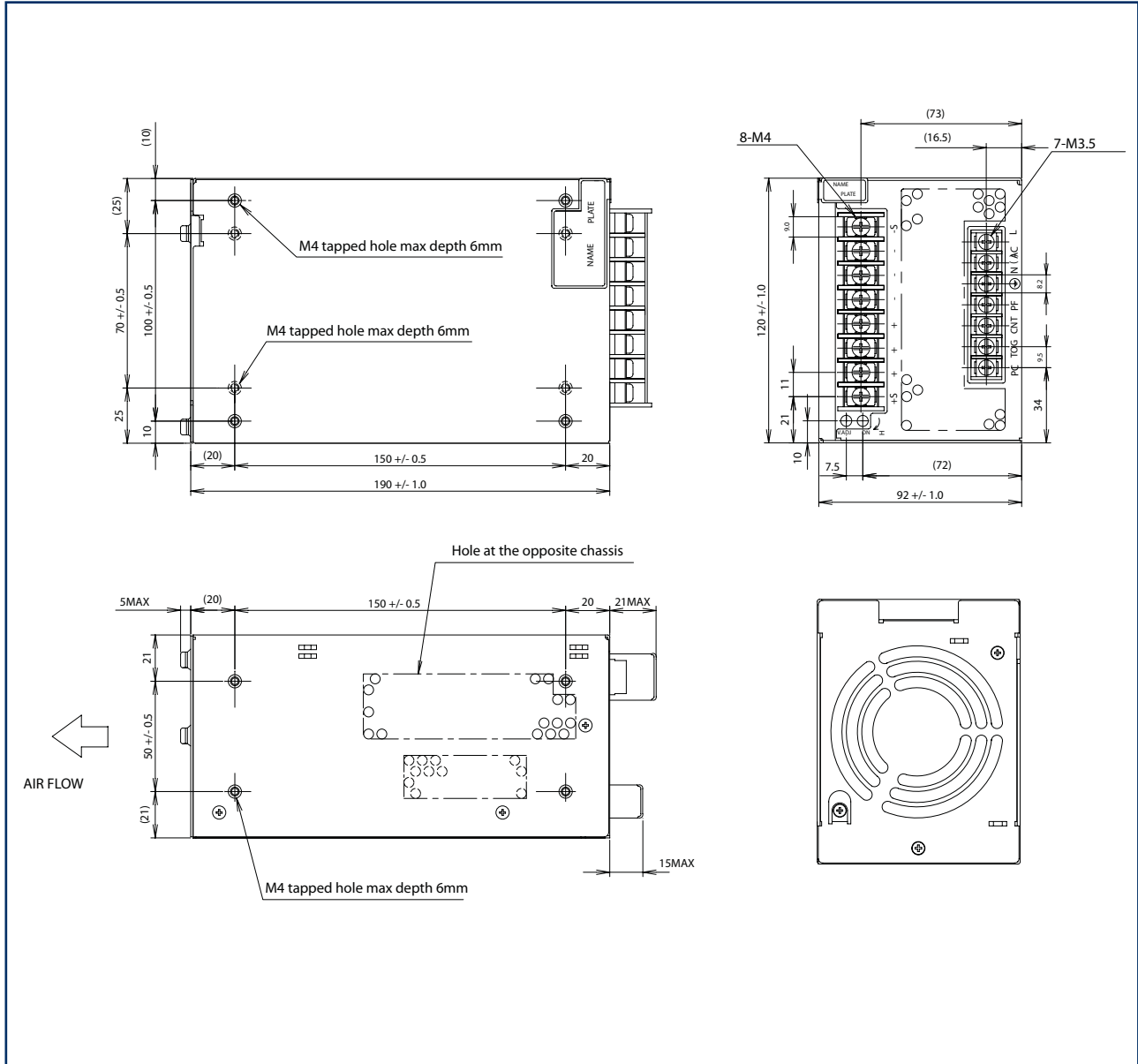
Model	50°C	55°C	60°C	65°C
SWS300	100%	91.6%	83.3%	50%
SWS600	100%	85%	70%	55%

Additional derating required when operating SWS600 with side ventilation holes blocked - see installation manual.

SWS 300 Outline Drawing



SWS 600 Outline Drawing



LAMBDA EMEA

AUSTRIA

LAMBDA ELECTRONICS GmbH
Aredstraße 22
A-2544 Leobersdorf

Telephone: +43 (0) 2256 655 84
Facsimile: +43 (0) 2256 645 12
www.lambda-austria.com

FRANCE

LAMBDA SAS
ZAC des Delaches, BP1077 - Gometz le Chatel
91940 Les Ulis

Telephone: +33 (0) 1 60 12 71 65
Facsimile: +33 (0) 1 60 12 71 66
Web: www.lambda-f.com

GERMANY

LAMBDA GmbH
Karl-Bold-Straße 40
D-77855 Achern

Telephone: +49 (0) 78 41 666 0
Facsimile: +49 (0) 78 41 5000
Web: www.lambda-germany.com

ISRAEL

NEMIC LAMBDA LTD
Kibbutz Givat
Hashlosha 48800

Telephone: +972 (0) 3 902 4333
Facsimile: +972 (0) 3 902 4777
Web: www.nemic.co.il

ITALY

LAMBDA s.r.l.
Via Pelizza Da Volpedo,
53-20092, Cinisello Balsamo (Mi)

Telephone: +39 (0) 02 61 29 38 63
Facsimile: +39 (0) 02 61 29 09 00
Web: www.lambda-italy.com

SWEDEN

LAMBDA SCANDINAVIA
PO Box 546, Sagvagen 2
SE-184 25. Akersberga

Telephone: +46 (0) 8 598 94 090
Facsimile: +46 (0) 8 540 66 096
Web: www.lambda-scandinavia.com

UK

LAMBDA UK
Kingsley Avenue
Ilfracombe Devon EX34 8ES

Telephone: +44 (0) 1271 856666
Facsimile: +44 (0) 1271 864894
Web: www.lambda-gb.com

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