



50W to 600W Single Output General Purpose Power Supplies

Features	Benefits
• 10 Year e-cap Lifetime	• Better Field Reliability
• 7 Year Warranty	• Lower Cost of Ownership
• Global Safety Approvals	• Supports Worldwide Use
• Compact Size	• Easier System Integration



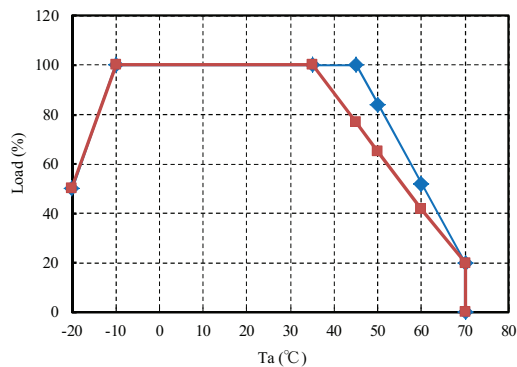
Specification		RWS50B	RWS100B	RWS150B	RWS300B	RWS600B
AC Input Voltage range (1)	VAC	85 - 265VAC (47 - 63Hz), 300VAC for 5 seconds				
Inrush Current (100 / 200VAC)	A	18 / 36	15 / 30	16 / 32	17 / 34	20 / 40
Power Factor (100 / 200VAC)	-	Meets EN61000-3-2				
Input Current (115/230VAC) (typ)	A	1.1 / 0.65	1.2 / 0.65 (5V model 0.9/0.45)	1.8 / 0.9 (5v model 1.3/0.7)	3.6 / 1.9 (5v model 3.1/1.6)	6.6 / 3.6 (5v model 6.2/3.2)
DC Input	VDC	120 - 370VDC				120 - 330VDC
Temperature Coefficient	-	<0.02%/°C				
Regulation	-	See table				
Overcurrent Protection	-	>105%, 5V & 12V constant current limit & hiccup autorecovery, 24V & 48V constant current limit with autorecovery				
Overvoltage Protection	V	115-140%, Cycle AC line to reset				
Hold Up Time (typ at full load)	ms	20ms				
Leakage Current (max)	uA	750uA maximum, typically 175uA at 115VAC, 63Hz				
Remote Sense	-	No				
Remote ON/OFF Control (4)	-	-	-	-	Option	Option
Parallel Operation	-	-	-	-	-	Option
Operating Temperature (1)	-	-20° to +70°C, derate above 45°C for 50W & 100W, 40°C for 150W & 50°C for 300W & 600W (see graphs below)				
Storage Temperature	-	-30° to +75°C				
Operating Humidity (non condensing)	%RH	30 - 90				
Storage Humidity (non condensing)	%RH	10 - 90				
Cooling	-	Convection			Internal Fan	
Withstand Voltage	-	Input to Ground 2KVAC, Input to Output 3KVAC, Output to Ground 500VAC for 1 min.				
Isolation Resistance	-	>100M at 25°C & 70%RH, Output to Ground 500VDC				
Vibration (non operating)	-	10 - 55Hz: 19.6m/s ² (sweep 1 min) X, Y, Z for 1 hour				
Shock	-	< 196.1 m/s ²				
Safety Agency Approvals (2) (3)	-	IEC/EN/UL/CSA60950-1, IEC/EN/UL/CSA62368-1, UL508 and CE Mark				
Line Dips	-	SEMI-F47 (200VAC input)				
Conducted & Radiated EMI	-	EN55011 / EN55022-B, FCC Class B, VCCI-B				
Immunity	-	IEC61000-4-2, -3, -4, -5, -6, -8, -11				
Weight (Typ)	g	230	400	480	900	1600
Size (WxHxD)	mm	82 x 34 x 81.5	94 x 39 x 108	94 x 41 x 128	102 x 41 x 170	120 x 61 x 190
MTBF (5)	hours	4,170,949	1,978,533	2,235,743	2,027,824	2,157,340
Warranty	Yrs	7				

Notes: (1) See graphs below for derating at low line input voltage
 (2) UL508 & CSA C22.2 No.107.1-01 on RWS50B-5, -12, -24, RWS100B-5, -12, -24, RWS150B-5, -12, -24 & RWS300B-24 only
 (3) Consult Sales Office for use under DC Input conditions (4) External 5V source required, see instruction manual for details
 (5) According to Telcordia document SR-332, issue 3, "Reliability Prediction Procedure for Electronic Equipment".
 Conditions: ambient temp. 25deg C, 230Vac input, full load (figures shown for 24V models)

Model Selector

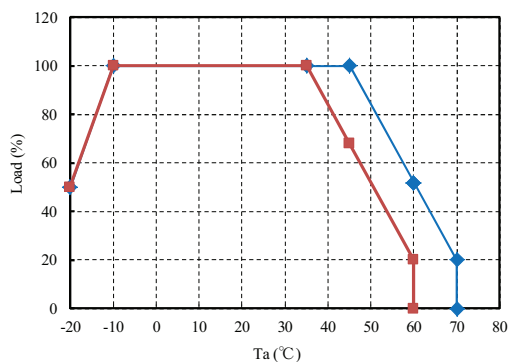
Model	Voltage	Adjust Range (V)	Max Current (A)	Max Output Power	Load Reg. (mV)	Line Reg. (mV)	Ripple Noise (mV)	Efficiency (typ) % 115/230VAC
RWS50B-5	5V	4.5-5.75	10	50	40	20	120	78 / 79
RWS100B-5	5V	4.5-5.75	14	70	40	20	120	77.5 / 79
RWS150B-5	5V	4.5-5.75	21	105	40	20	120	77.5 / 79.5
RWS300B-5	5V	4.5-5.75	50	250	40	20	120	75 / 78.5
RWS600B-5	5V	4.5-5.75	100	500	70	20	120	74 / 77.5
RWS50B-12	12V	10.8-13.8	4.3	51.6	96	48	150	83 / 84
RWS100B-12	12V	10.8-13.8	8.5	102	96	48	150	83 / 84
RWS150B-12	12V	10.8-13.8	13	156	96	48	150	84.5 / 87.5
RWS300B-12	12V	10.8-13.8	25	300	96	48	150	79.5 / 82.5
RWS600B-12	12V	10.8-13.8	50	600	96	48	150	82 / 84.5
RWS100B-15	15V	13.5-17.25	6.8	102	120	60	150	84 / 85
RWS150B-15	15V	13.5-17.25	10	150	120	60	150	84.5 / 87.5
RWS300B-15	15V	13.5-17.3	20	300	120	60	150	81.5 / 84.5
RWS600B-15	15V	13.5-17.3	40	600	120	60	150	82 / 84.5
RWS50B-24	24V	21.6-27.6	2.2	52.8	192	96	150	86 / 87
RWS100B-24	24V	21.6-27.6	4.5	108	192	96	150	86 / 87.5
RWS150B-24	24V	21.6-27.6	6.5	156	192	96	150	86.5 / 89.5
RWS300B-24	24V	21.6-27.6	12.5	300	192	96	150	85 / 88
RWS600B-24	24V	21.6-27.6	25	600	192	96	150	85 / 88.5
RWS150B-28	28V	25.2-32.2	5.4	151.2	224	112	180	86.5 / 89.5
RWS300B-36	36V	32.4-41.4	8.4	302.4	288	144	200	85 / 88
RWS600B-36	36V	32.4-41.4	16.7	601.2	288	144	200	84 / 88.5
RWS50B-48	48V	43.2-52.8	1.1	52.8	384	192	200	87 / 88
RWS100B-48	48V	43.2-52.8	2.1	100.8	384	192	200	86 / 87
RWS150B-48	48V	43.2-52.8	3.3	158.4	384	192	200	86.5 / 89.5
RWS300B-48	48V	43.2-52.8	6.3	302.4	384	192	200	85 / 88
RWS600B-48	48V	43.2-52.8	12.5	600	384	192	200	85 / 88.5

Output Derating RWS50B Series



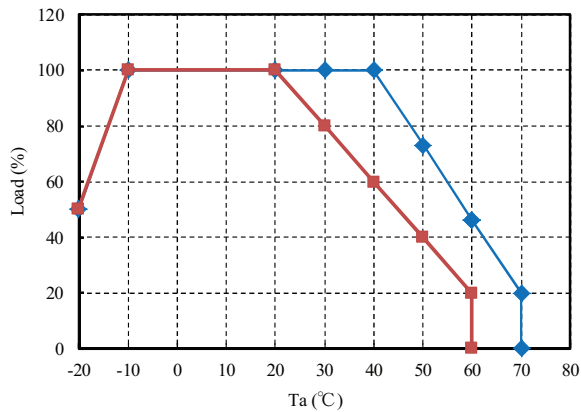
Ta (°C)	Load (%)	
	Mounting (A)	Mousing (B),(C),(D)
-20	50	50
-10 - +35	100	100
45	100	77
50	84	65
60	52	42
70	20	20

Output Derating RWS100B Series



Ta (°C)	Load (%)	
	Mounting (A)	Mousing (B),(C),(D)
-20	50	50
-10 - +35	100	100
45	100	68
60	52	20
70	20	-

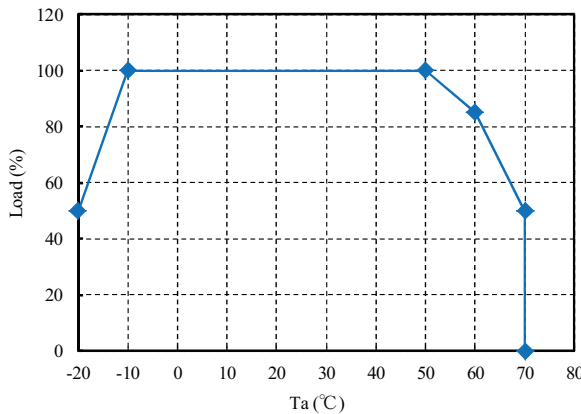
Output Derating RWS150B Series



◆ Mounting (A)
■ Mousing (B),(C),(D)

Ta (°C)	Load (%)	
	Mounting (A)	Mousing (B),(C),(D)
-20	50	50
-10 - +20	100	100
30	100	80
40	100	60
50	73	40
60	46	20
70	20	-

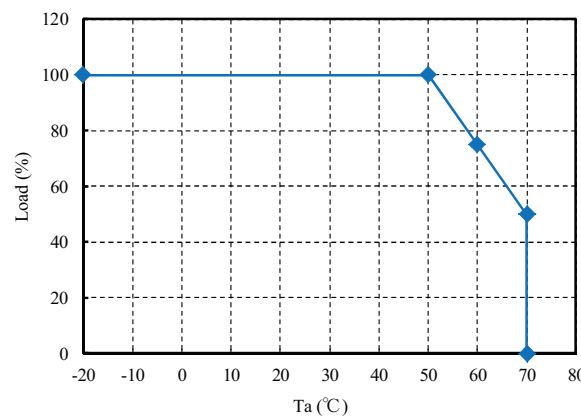
Output Derating RWS300B Series



◆ Mounting (A)-(D)

Ta (°C)	Load (%)
	Mounting (A)-(D)
-20	50
-10 - +50	100
60	85
70	50

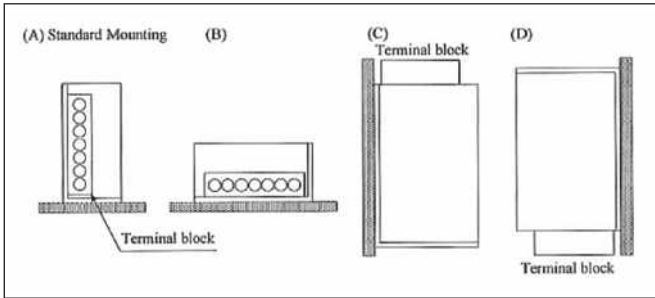
Output Derating RWS600B Series



◆ Mounting (A)-(D)

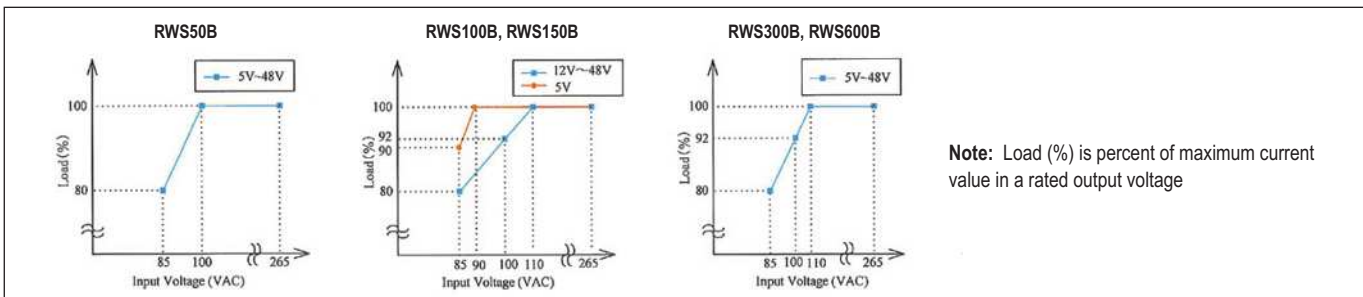
Ta (°C)	Load (%)
	Mounting (A)-(D)
-20 - +50	100
60	75
70	50

Mounting Direction RWS-B Series

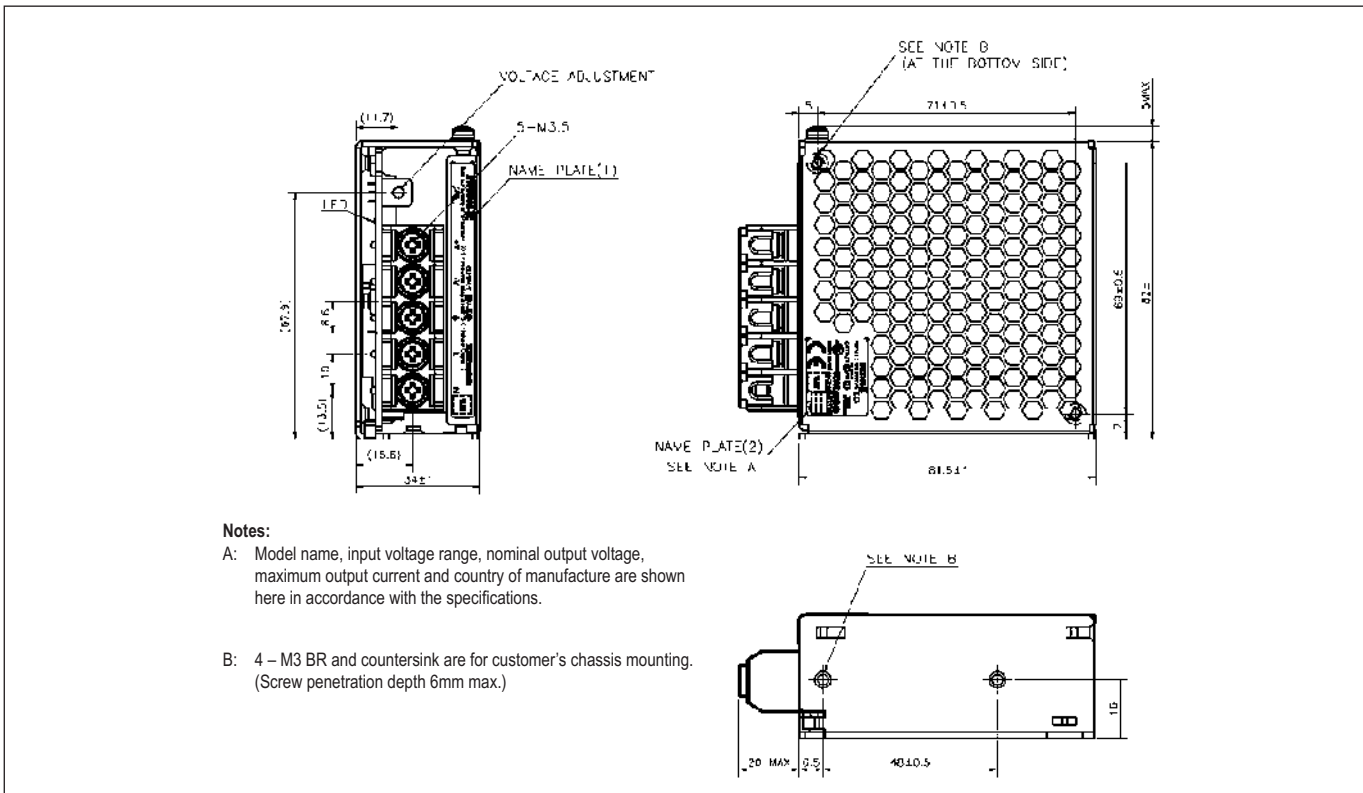


Options	
Suffix	Description
/CO2	Double Sided Board Coating
/R	Remote On/Off (RWS300B and RWS600B)
/RFO	Remote On/Off, Remote Sense, Parallel Operation, DC Good Signal (RWS600B only)
/FO	Remote Sense, Parallel Operation, DC Good Signal (RWS600B only)

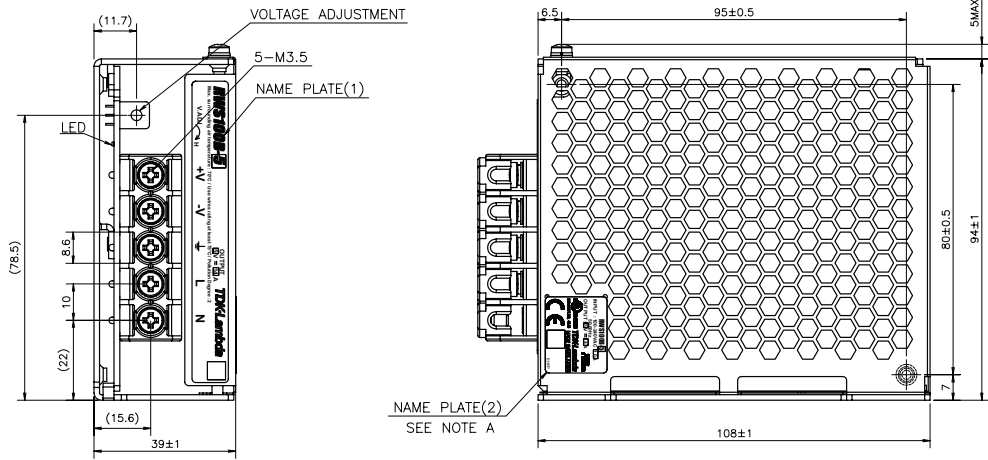
Output Derating according to Input Voltage



Outline Drawing RWS50B Series

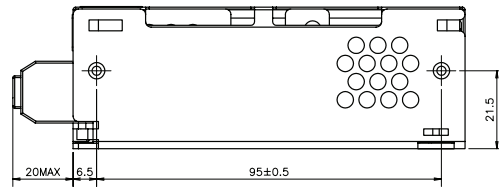


Outline Drawing RWS100B Series

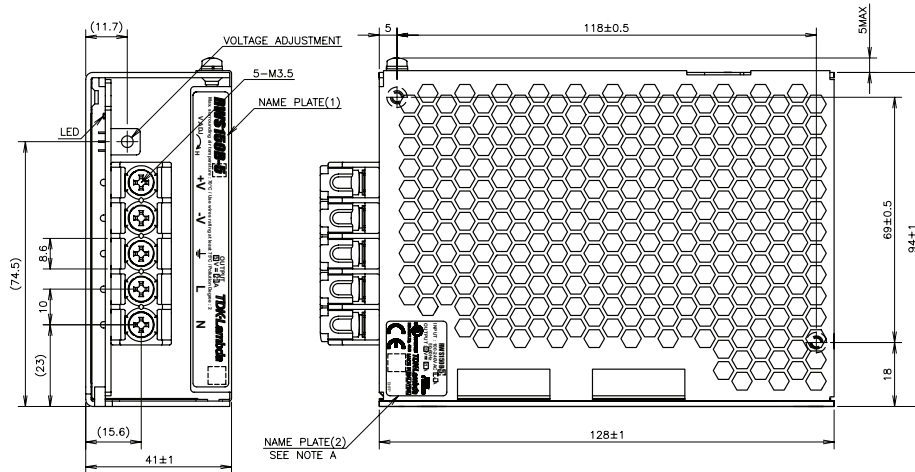


Notes:

- 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: 4 – M3 BR and countersink are for customer's chassis mounting. (Screw penetration depth 6mm max.)

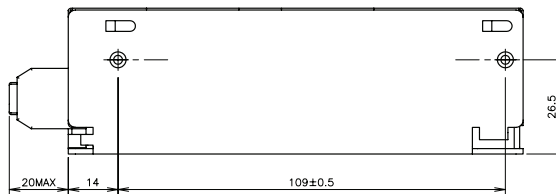


Outline Drawing RWS150B Series

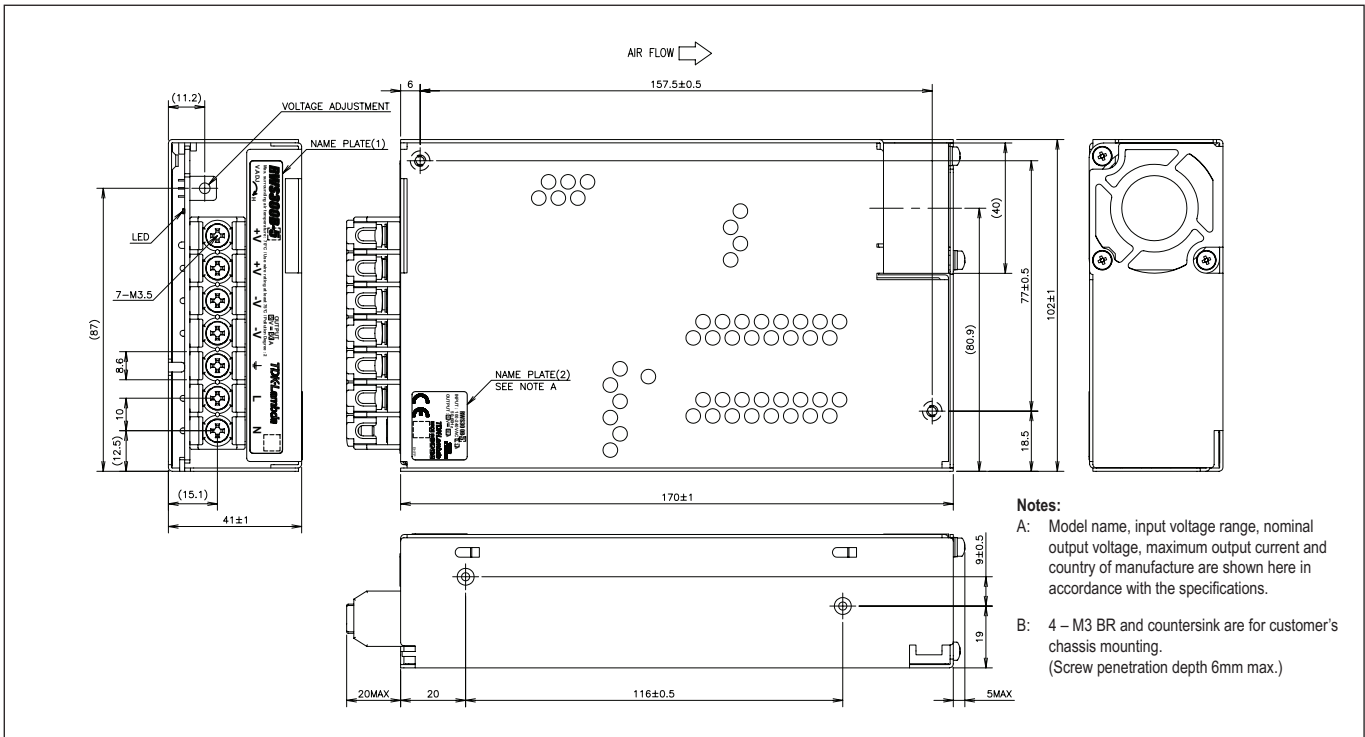


Notes:

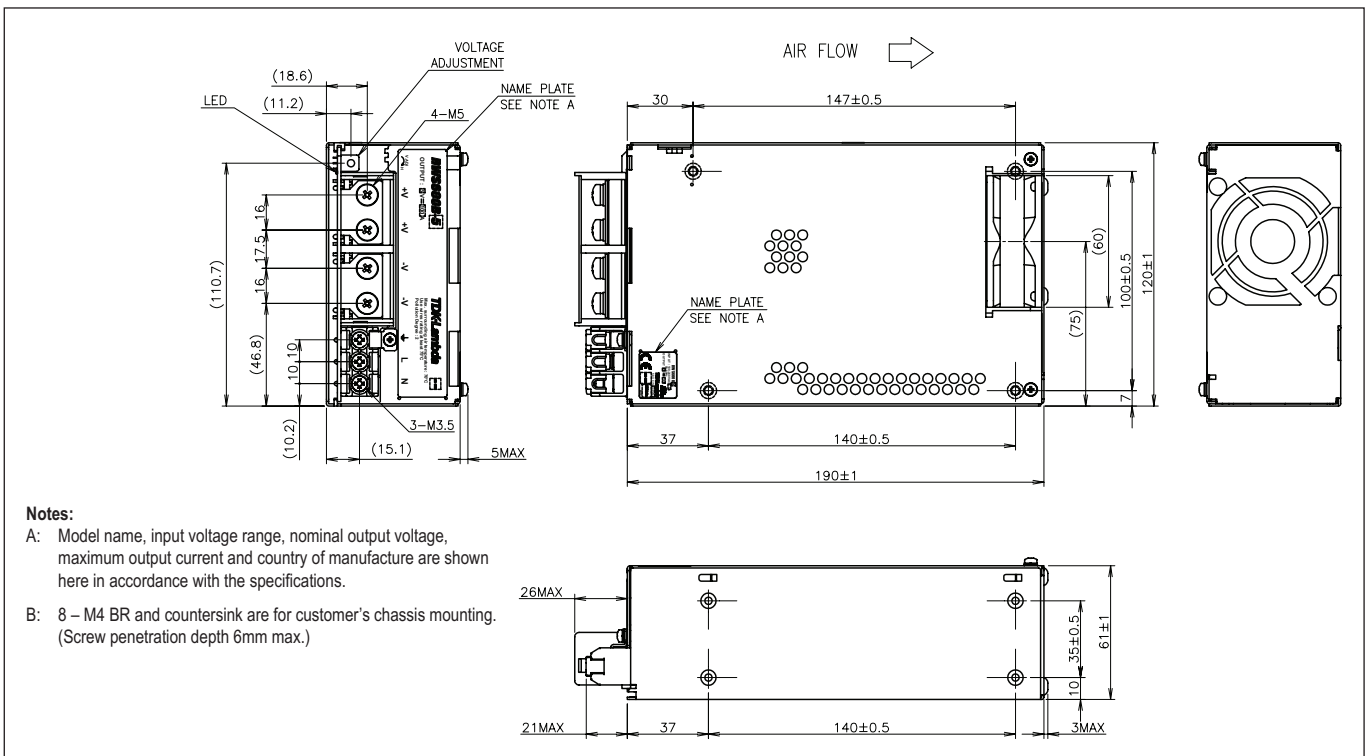
- A: Model name, input voltage range, nominal output voltage, maximum output current and country of manufacture are shown here in accordance with the specifications.
- B: 4 – M3 BR and countersink are for customer's chassis mounting. (Screw penetration depth 6mm max.)



Outline Drawing RWS300B Series



Outline Drawing RWS600B Series





TDK-Lambda France SAS

3 Avenue du Canada
Parc Technopolis
Bâtiment Sigma
91940 les Ulis
France
Tel: +33 1 60 12 71 65
Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.fr.tdk-lambda.com



Italy Sales Office

Via Giacomo Matteotti 62
20092 Cinisello Balsamo (MI)
Italy
Tel: +39 02 61 29 38 63
Fax: +39 02 61 29 09 00
info.italia@it.tdk-lambda.com
www.it.tdk-lambda.com



Netherlands

info@nl.tdk-lambda.com
www.nl.tdk-lambda.com



TDK-Lambda Germany GmbH

Karl-Bold-Strasse 40
77855 Achern
Germany
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



Austria Sales Office

Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info@at.tdk-lambda.com
www.de.tdk-lambda.com



Switzerland Sales Office

Eichtalstrasse 55
8634 Hombrechtikon
Switzerland
Tel: +41 44 850 53 53
Fax: +41 44 850 53 50
info@ch.tdk-lambda.com
www.de.tdk-lambda.com



Nordic Sales Office

Haderslevvej 36B
DK-6000 Kolding
Denmark
Tel: +45 8853 8086
info@dk.tdk-lambda.com



TDK-Lambda UK Ltd.

Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom
Tel: +44 (0) 12 71 85 66 66
Fax: +44 (0) 12 71 86 48 94
powersolutions@uk.tdk-lambda.com
www.uk.tdk-lambda.com



TDK-Lambda Ltd.

1 Alexander Yanai
Segula
Petah-Tikva
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.tdk-lambda.co.il



C.I.S.

Commercial Support:

Tel: +7 (495) 665 2627

Technical Support:

Tel: +7 (812) 658 0463

info@tdk-lambda.ru

www.tdk-lambda.ru

Local Distribution

