



## 50W to 600W Single Output General Purpose Power Supplies

Features	Benefits
• 10 Year e-cap Lifetime	• Better Field Reliability
• 5 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	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 (100/200VAC) (typ)	A	1.1 / 0.7	1.3 / 0.7	1.9 / 1.0	3.8 / 2.1	7.2 / 4.0
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)	-	-10° to +70°C, derate above 45°C for 50W, 40°C for 100W & 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 <sup>2</sup> (sweep 1 min) X, Y, Z for 1 hour				
Shock	-	< 196.1 m/s <sup>2</sup>				
Safety Agency Approvals (2) (3)	-	UL60950-1, CSA60950, EN60950-1, UL:508, CSA C22.2 No.107.1-01, CE Mark				
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
Warranty	Yrs	5				

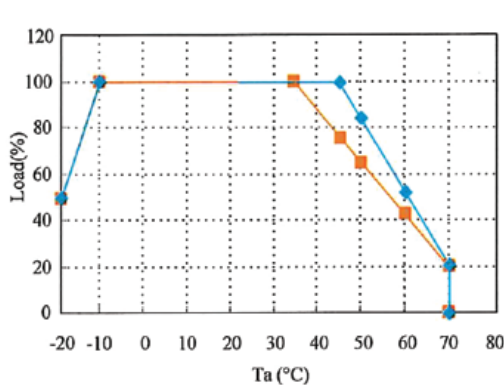
**Notes:**

- (1) RWS600B operates down to -20°C
- (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

## Model Selector

Model	Voltage	Adjust Range (V)	Max Current (A)	Max Output Power	Load Reg. (mV)	Line Reg. (mV)	Ripple Noise (mV)	Efficiency (typ) % 100/200VAC
RWS50B-5	5V	4.5-5.75	10	50	40	20	120	77 / 79
RWS100B-5	5V	4.5-5.75	14	70	40	20	120	77 / 79
RWS150B-5	5V	4.5-5.75	21	105	40	20	120	77 / 79
RWS300B-5	5V	4.5-5.75	50	250	40	20	120	75 / 78
RWS600B-5	5V	4.5-5.75	100	500	70	20	120	74 / 77
RWS50B-12	12V	10.8-13.8	4.3	51.6	96	48	150	82 / 84
RWS100B-12	12V	10.8-13.8	8.5	102	96	48	150	82 / 84
RWS150B-12	12V	10.8-13.8	13	156	96	48	150	84 / 87
RWS300B-12	12V	10.8-13.8	25	300	96	48	150	79 / 82
RWS600B-12	12V	10.8-13.8	50	600	96	48	150	81 / 84
RWS300B-15	15V	13.5-17.3	20	300	120	60	150	81 / 84
RWS600B-15	15V	13.5-17.3	40	600	120	60	150	81 / 84
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	85 / 87
RWS150B-24	24V	21.6-27.6	6.5	156	192	96	150	86 / 89
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	84 / 88
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	85 / 88
RWS50B-48	48V	43.2-52.8	1.1	52.8	384	192	200	86 / 88
RWS100B-48	48V	43.2-52.8	2.1	100.8	384	192	200	85 / 87
RWS150B-48	48V	43.2-52.8	3.3	158.4	384	192	200	86 / 89
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

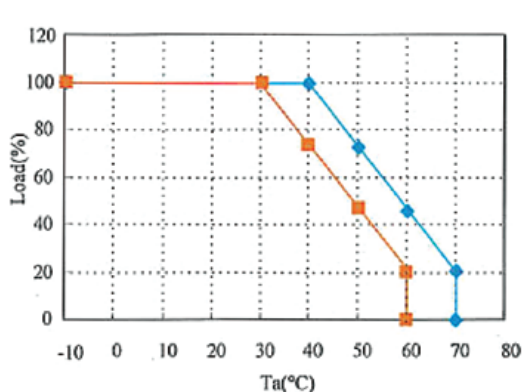
## Output Derating RWS50B Series



◆ Mounting (A)  
 ■ Mounting (B),(C),(D)

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

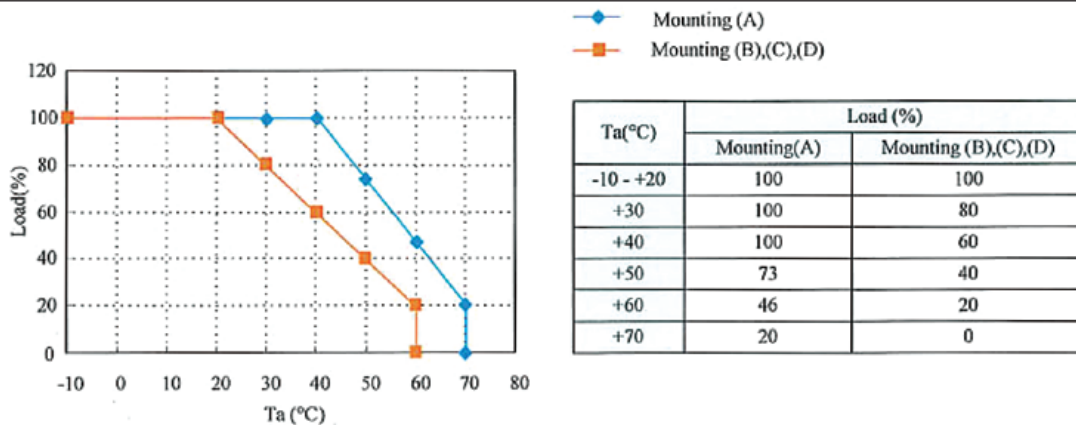
## Output Derating RWS100B Series



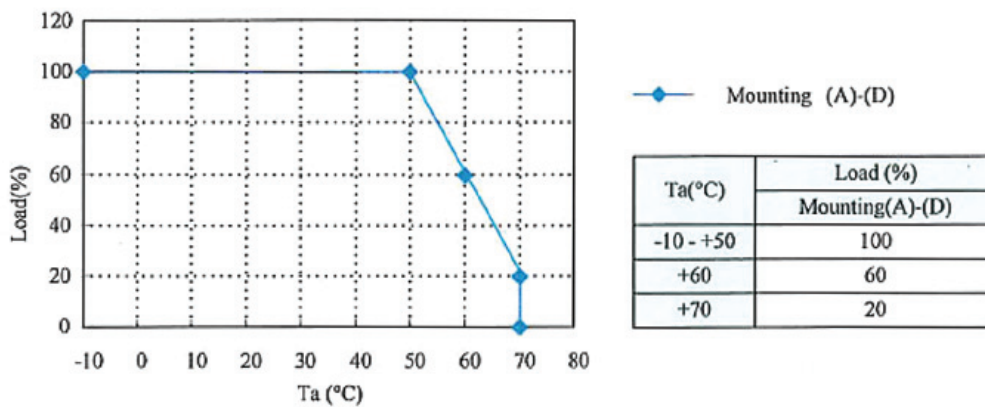
◆ Mounting (A)  
 ■ Mounting (B),(C),(D)

Ta(°C)	Load (%)	
	Mounting(A)	Mounting(B),(C),(D)
-10 - +30	100	100
+40	100	73
+50	73	47
+60	46	20
+70	20	0

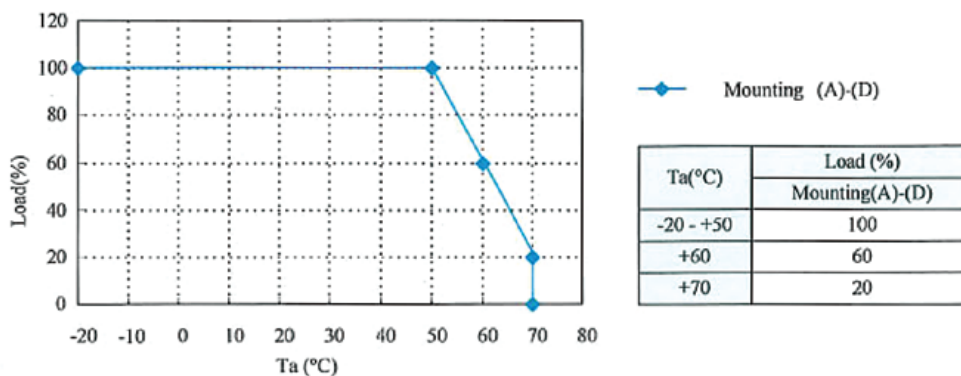
## Output Derating RWS150B Series



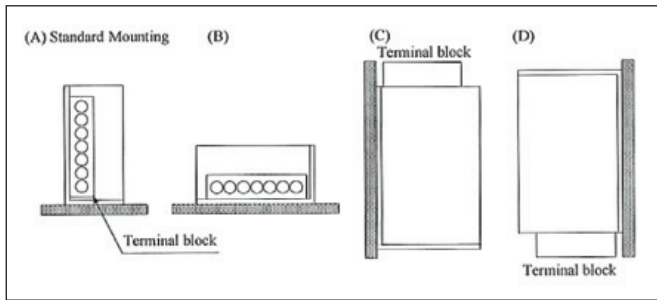
## Output Derating RWS300B Series



## Output Derating RWS600B Series

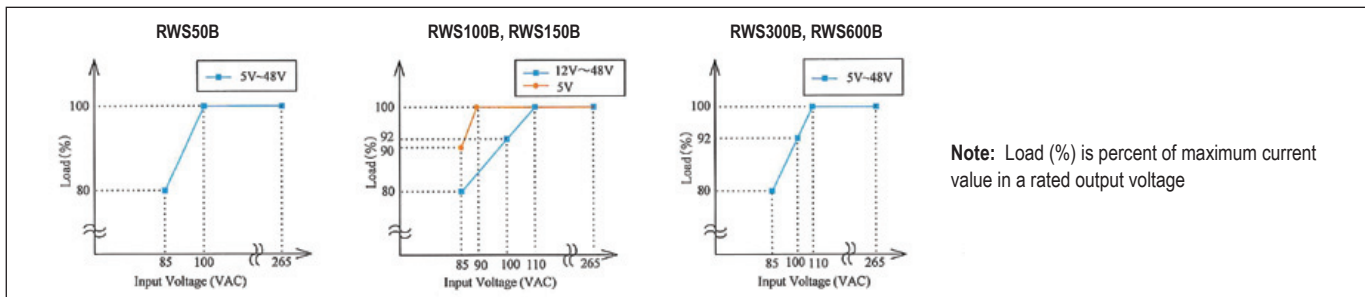


## Mounting Direction RWS-B Series

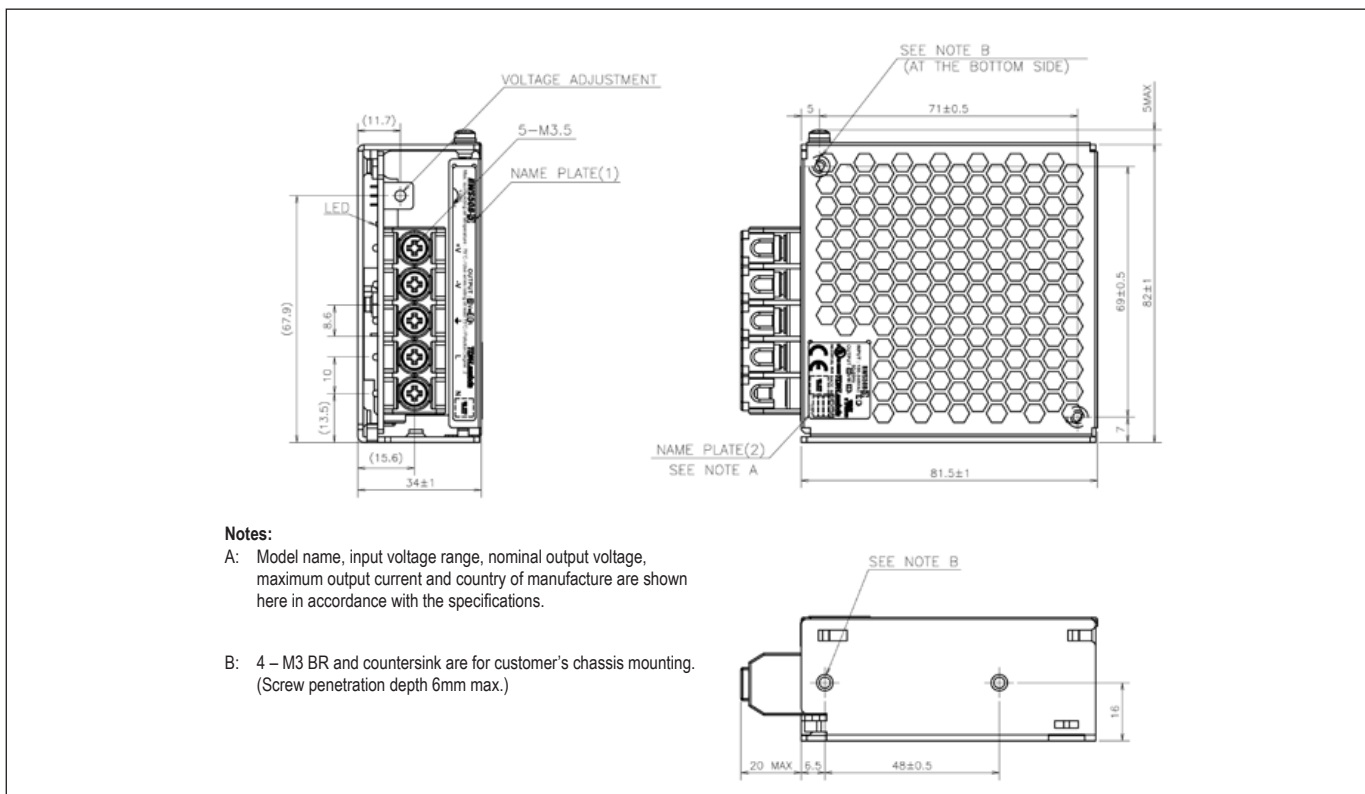


Options	
Suffix	Description
/CO2	Double Sided Board Coating
/R	Remote On/Off (RWS300B and RWS600B)
/RFO	Remote On/Off, Remote Sense, Parallel Operation, DC Good Signal (RWS600B only)
/FO	Remote Sense, Parallel Operation, DC Good Signal (RWS600B only)

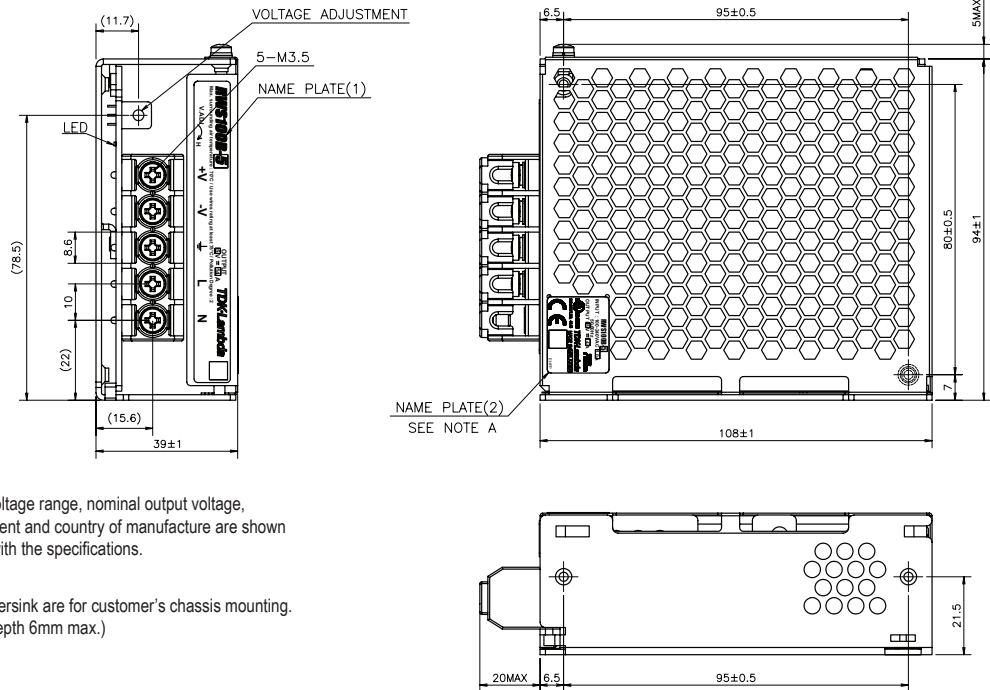
## Output Derating according to Input Voltage



## Outline Drawing RWS50B Series



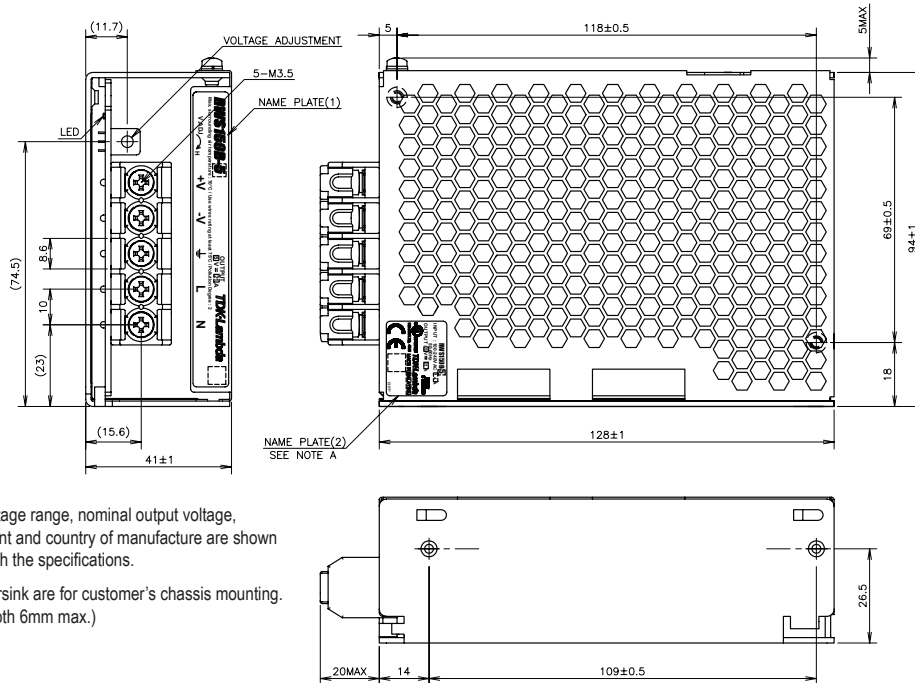
## Outline Drawing RWS100B Series



**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.)

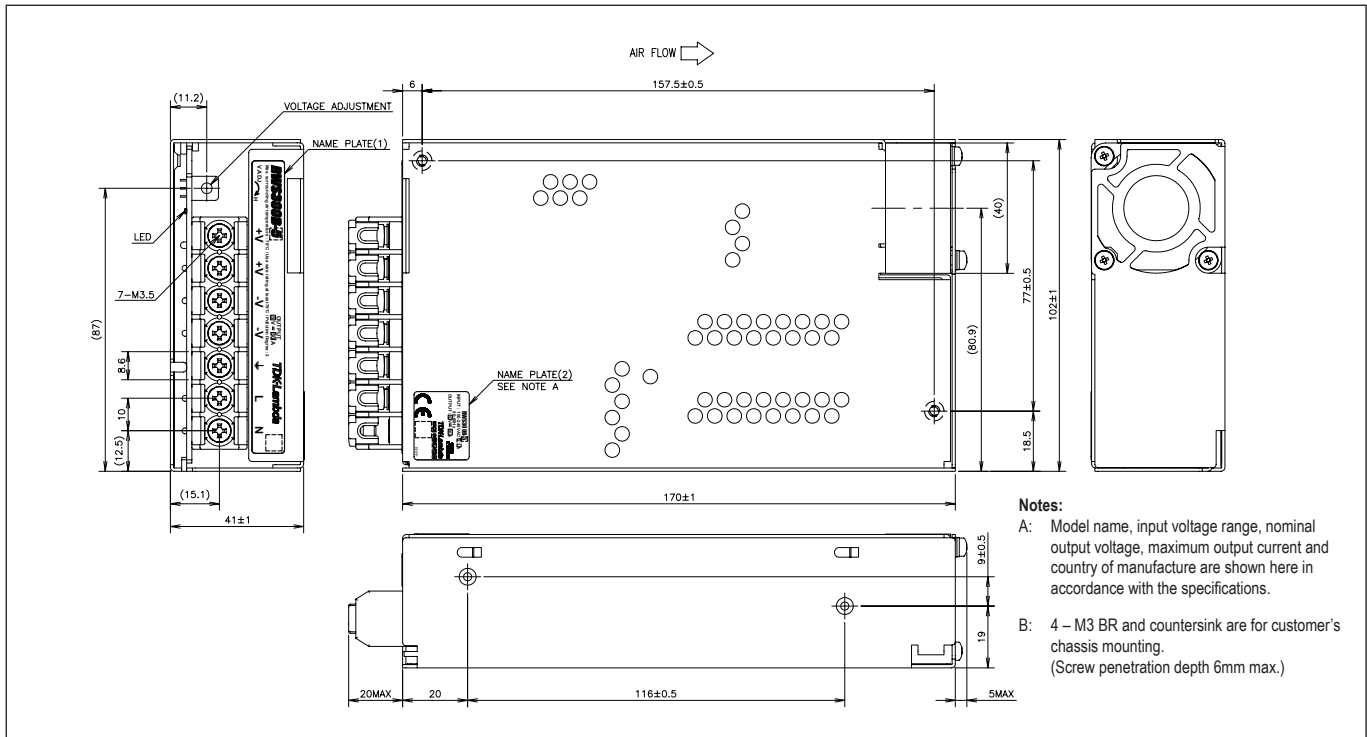
## Outline Drawing RWS150B Series



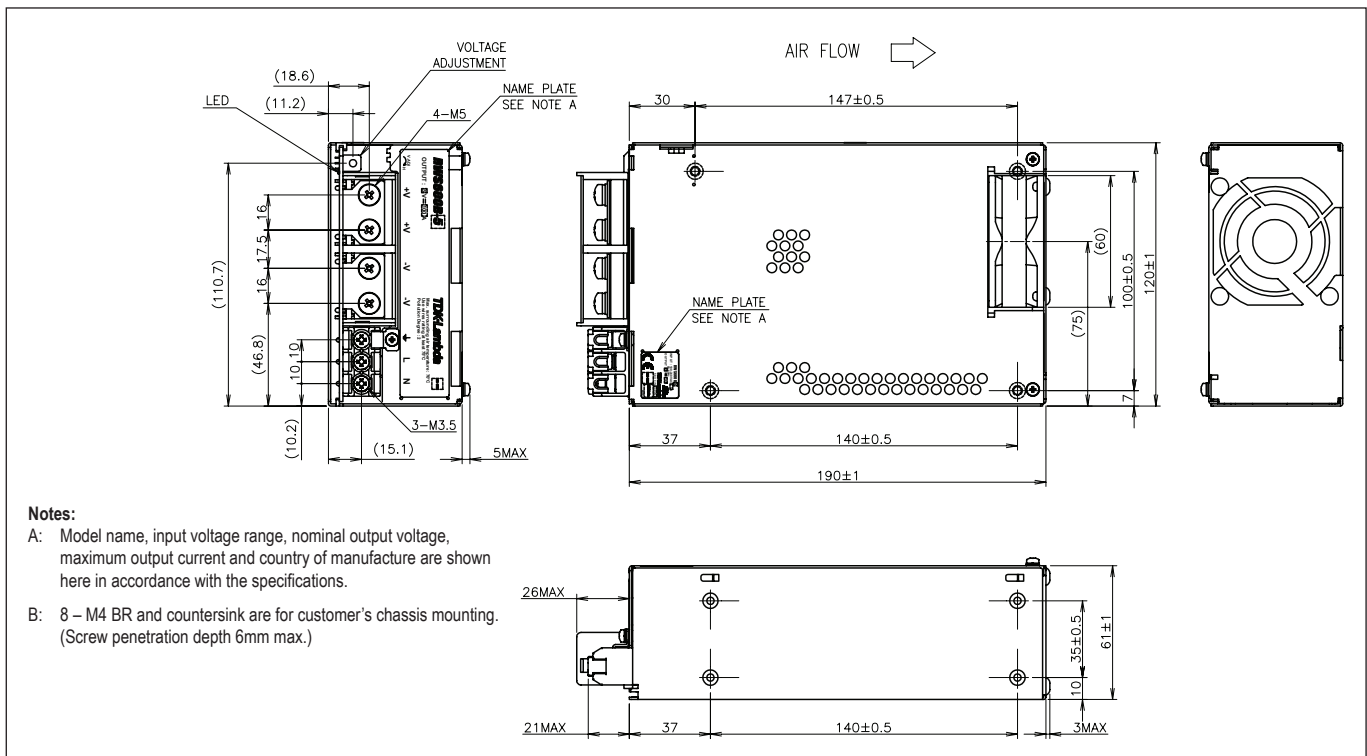
**Notes:**

- 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

ZAC des Delaches  
CS 41077  
9 rue Thuillere  
91978 Villebon Courtaboeuf  
France  
Tel: +33 1 60 12 71 65  
Fax: +33 1 60 12 71 66  
france@tdk-lambda.com  
www.fr.tdk-lambda.com



## Italy Sales Office

Via dei Lavoratori 128/130  
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.germany@de.tdk-lambda.com  
www.de.tdk-lambda.com



## Switzerland Sales Office

Bahnhofstrasse 50  
8305 Dietlikon  
Switzerland  
Tel: +41 44 850 53 53  
Fax: +41 44 850 53 50  
info@de.tdk-lambda.com  
www.de.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.

Kibbutz  
Givat Hashlosha 48800  
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

