



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 |



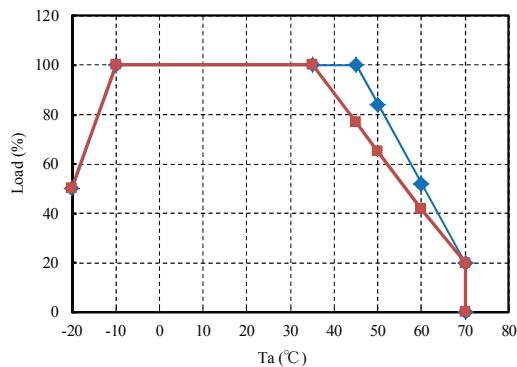
| Specification | | RWS50B | RWS100B | RWS150B | RWS300B | RWS600B |
|-------------------------------------|-------|--|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|
| AC Input Voltage range (1) | VAC | 85 - 265VAC (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

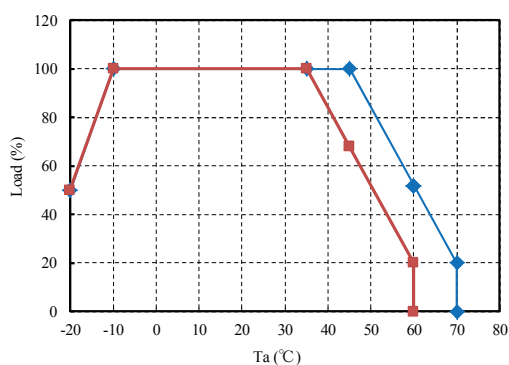
| Model | Voltage | Adjust Range (V) | Max Current (A) | Max Output Power | Load Reg. (mV) | Line Reg. (mV) | Ripple Noise (mV) | Efficiency (typ) % 115/230VAC |
|------------|---------|------------------|-----------------|------------------|----------------|----------------|-------------------|-------------------------------|
| 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



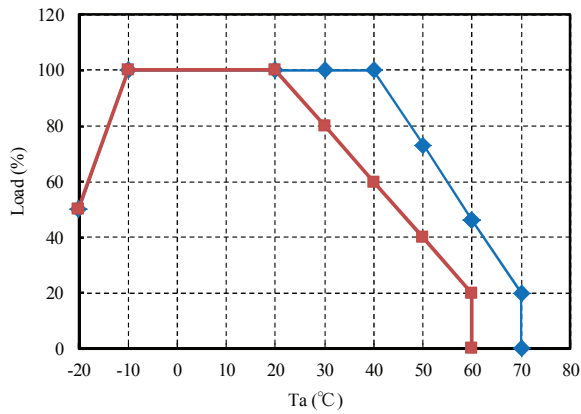
| Ta (°C) | Load (%) | |
|-----------|--------------|---------------------|
| | Mounting (A) | Mousing (B),(C),(D) |
| -20 | 50 | 50 |
| -10 - +35 | 100 | 100 |
| 45 | 100 | 77 |
| 50 | 84 | 65 |
| 60 | 52 | 42 |
| 70 | 20 | 20 |

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 | - |

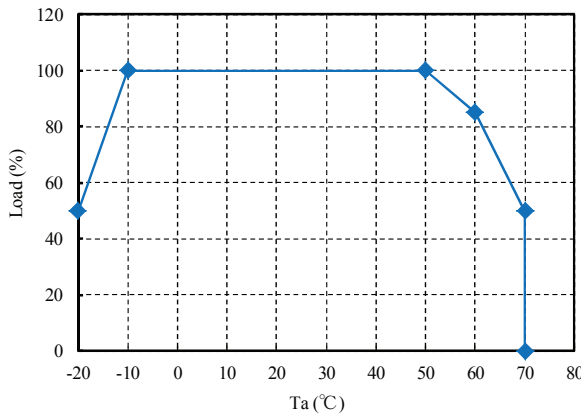
Output Derating RWS150B Series



◆ 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 | - |

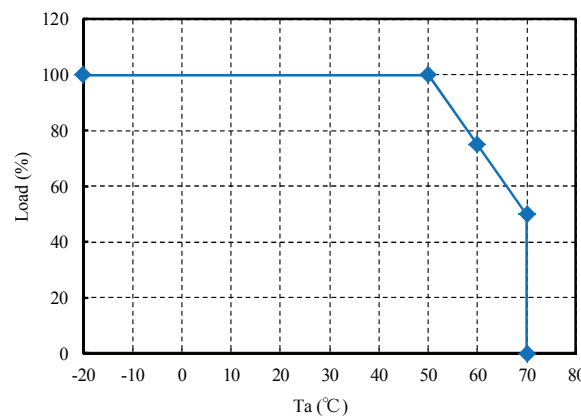
Output Derating RWS300B Series



◆ Mounting (A)-(D)

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

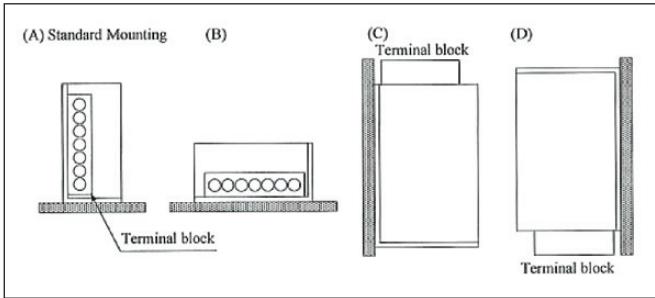
Output Derating RWS600B Series



◆ Mounting (A)-(D)

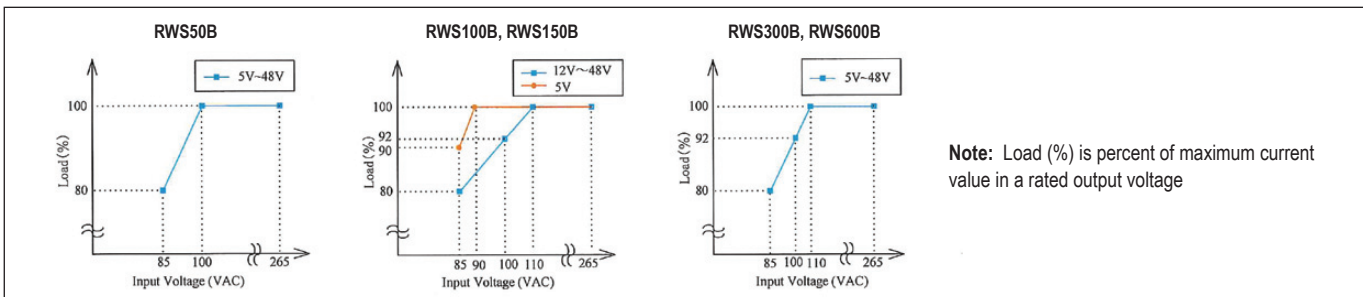
| Ta (°C) | Load (%) |
|-----------|------------------|
| | Mounting (A)-(D) |
| -20 - +50 | 100 |
| 60 | 75 |
| 70 | 50 |

Mounting Direction RWS-B Series

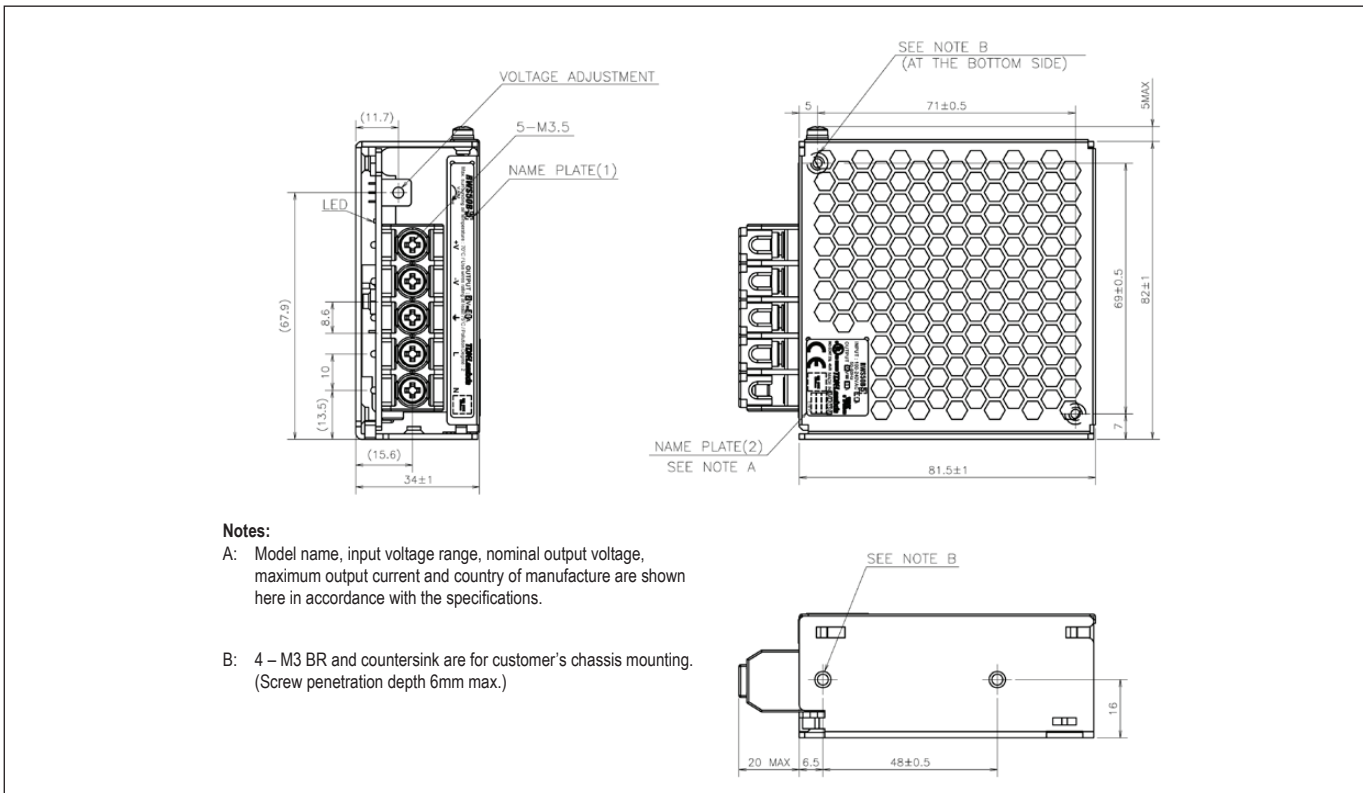


| Options | |
|---------|--|
| Suffix | Description |
| /CO2 | Double Sided Board Coating |
| /R | Remote On/Off (RWS300B and RWS600B) |
| /RFO | Remote On/Off, Remote Sense, Parallel Operation, DC Good Signal (RWS600B only) |
| /FO | Remote Sense, Parallel Operation, DC Good Signal (RWS600B only) |

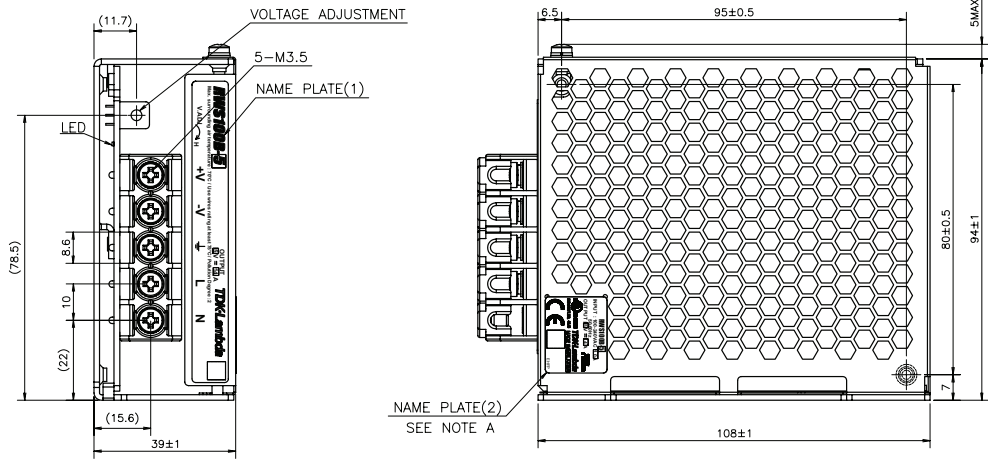
Output Derating according to Input Voltage



Outline Drawing RWS50B Series

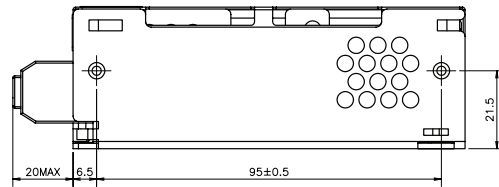


Outline Drawing RWS100B Series

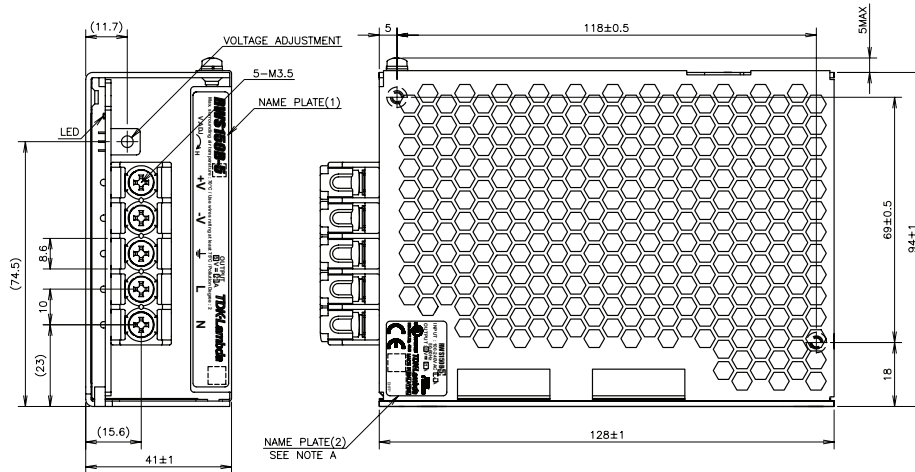


Notes:

- 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.)

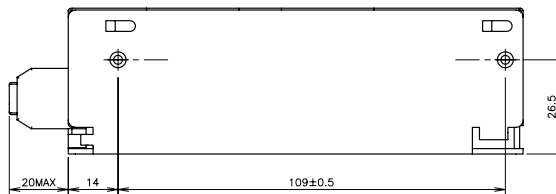


Outline Drawing RWS150B Series

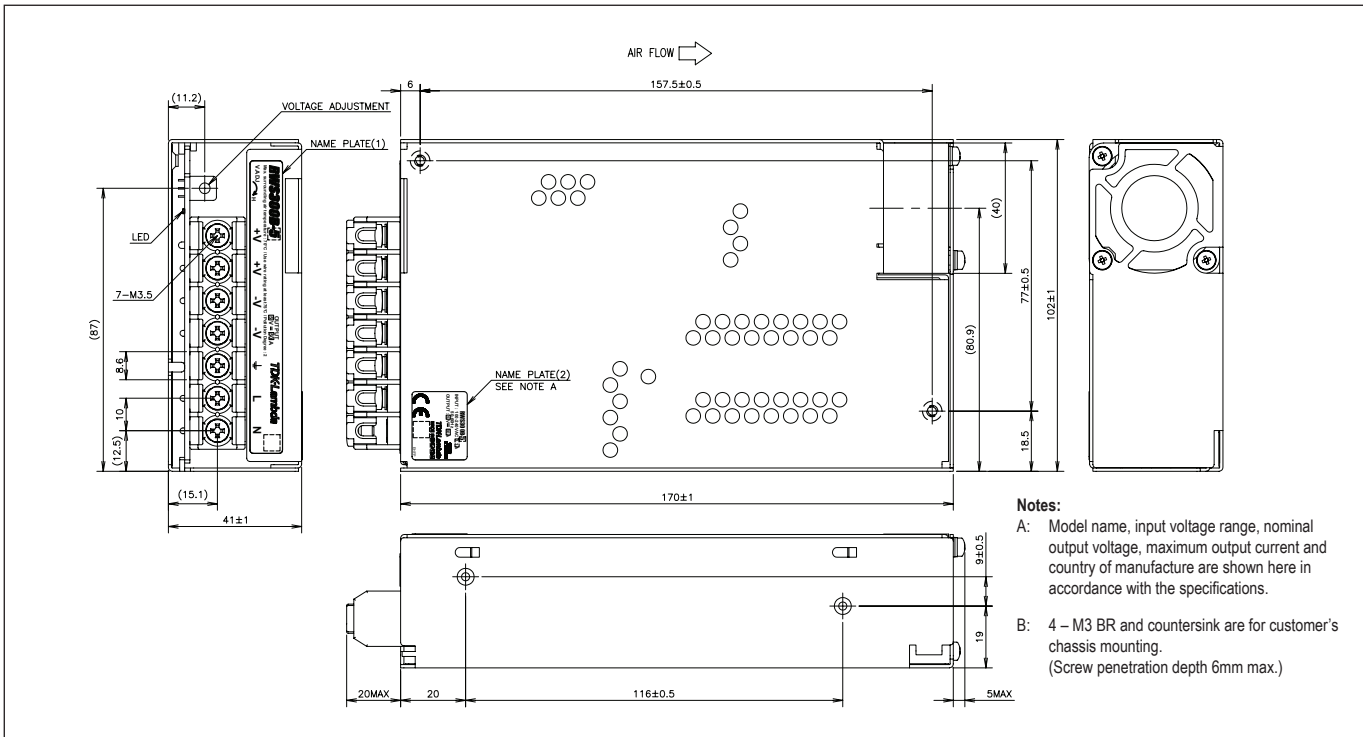


Notes:

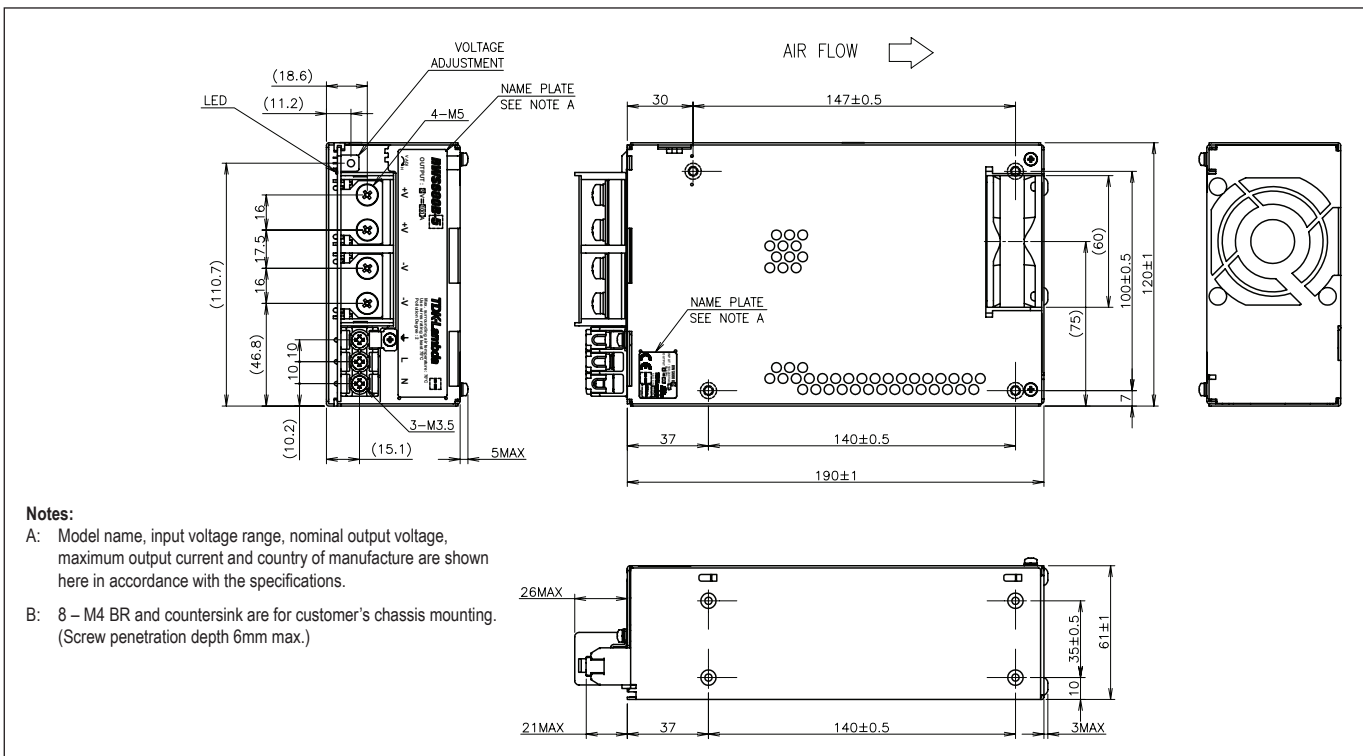
- A: Model name, input voltage range, nominal output voltage, maximum output current and country of manufacture are shown here in accordance with the specifications.
- B: 4 – M3 BR and countersink are for customer's chassis mounting. (Screw penetration depth 6mm max.)



Outline Drawing RWS300B Series



Outline Drawing RWS600B Series





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