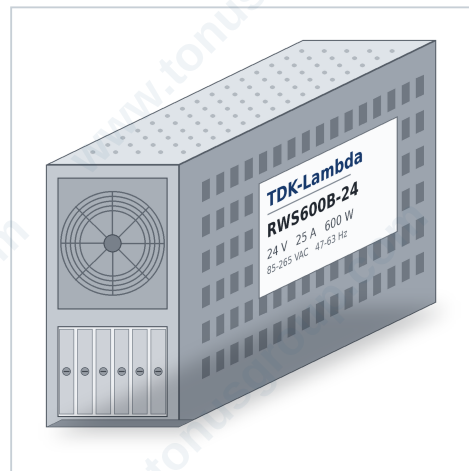


RWS600B-24 — Enclosed AC-DC Switching Power Supply

TDK-Lambda RWS-B Series | Single output | 24 VDC / 25 A / 600 W

www.tonusgroup.com

The TDK-Lambda RWS600B-24 is a 600 W enclosed unit-type AC-DC switching power supply delivering a nominal 24 VDC at up to 25 A from a universal 85–265 VAC input, so a single model covers worldwide mains without reconfiguration. Output is adjustable over 21.6–27.6 VDC, and the unit includes over-current and over-voltage protection, power-factor-corrected input to IEC 61000-3-2, and forced-air cooling from an integral fan. Designed to meet SEMI F47 voltage-sag immunity and carrying UL/CSA/EN 62368-1 plus UL 508 approvals, it suits industrial automation and control cabinets, semiconductor and test equipment, broadcast and communications racks, and LED signage.



Representative illustration — actual product may differ

GENERAL / IDENTIFICATION		Parameter / Value
Manufacturer	TDK-Lambda	
Model / part number	RWS600B-24	
Series	RWS-B (RWS600B)	
Product type	Enclosed unit-type AC-DC switching power supply	
Number of outputs	1 (single output)	
Product status	In production	
INPUT		Parameter / Value
Input phase	Single-phase	
Input voltage range (AC)	85 – 265 VAC	
Input frequency	47 – 63 Hz	
Input voltage range (DC)	120 – 330 VDC	
Inrush current (typ.)	20 A at 100 VAC / 40 A at 200 VAC (Ta = 25 °C)	
Power factor (typ.)	0.95 at 100 VAC / 0.90 at 200 VAC	
Harmonic current	Designed to meet IEC 61000-3-2	
Leakage current	Less than 0.75 mA	
OUTPUT & PERFORMANCE		Parameter / Value
Nominal output voltage	24 VDC	
Output voltage adjustment range	21.6 – 27.6 VDC	
Maximum output current	25 A	
Maximum output power	600 W	
Efficiency (typ.)	88.5 % at 230 VAC (88 % at 200 VAC)	
Temperature coefficient	Less than 0.02 % / °C	
Hold-up time (typ.)	20 ms	
Over-current protection	26.3 A min.; constant-current limit, automatic recovery	

Specifications are taken from the manufacturer's published data and are subject to change without notice. Confirm against the current manufacturer manual before rated or safety-critical use. All brand names, trademarks, logos and part numbers are the property of their respective owners and are used here for identification and reference only. We are not an authorised distributor or agent of the manufacturer unless expressly stated otherwise.

RWS600B-24 — Enclosed AC-DC Switching Power Supply

TDK-Lambda RWS-B Series | Single output | 24 VDC / 25 A / 600 W

www.tonusgroup.com

Over-voltage protection	28.8 – 33.6 V; output shutdown, manual reset
Series operation	Possible
Remote control / parallel operation	Available as factory options

ISOLATION

Parameter / Value

Withstand voltage	Input-FG 2 kVAC (20 mA); Input-Output 3 kVAC (20 mA); Output-FG 500 VAC (100 mA), 1 min
Isolation resistance	More than 100 MΩ at 500 VDC, output to chassis (25 °C, 70 % RH)

MECHANICAL & ENVIRONMENTAL

Parameter / Value

Dimensions (W × H × D)	61 × 120 × 190 mm (2.40 × 4.72 × 7.48 in)
Weight (typ.)	1 600 g (3.5 lb)
Construction	Enclosed / unit type
Cooling	Forced air (integral fan)
Operating temperature	–20 to +70 °C (100 % load to +50 °C; 50 % load at +70 °C)
Operating humidity	30 – 90 % RH, non-condensing
Storage temperature	–30 to +75 °C
Storage humidity	10 – 90 % RH, non-condensing
Vibration (non-operating)	10 – 55 Hz sweep, 19.6 m/s ² constant, X/Y/Z 1 h each
Shock	Less than 196.1 m/s ²

COMPLIANCE & STANDARDS

Parameter / Value

Safety approvals	UL 62368-1, CSA 62368-1, EN 62368-1, UL 60950-1, CSA 60950-1
Additional approvals	UL 508 and CSA C22.2 No. 107.1-01 (24 V models)
Japan	Designed to meet Den-an Appendix 8 at 100 VAC only
Conducted & radiated emissions	Designed to meet EN 55011 / EN 55032 Class B, FCC Class B, VCCI Class B
Immunity	Designed to meet IEC 61000-6-2 (IEC 61000-4-2, -3, -4, -5, -6, -8, -11)
Voltage sag immunity	Designed to meet SEMI F47 (200 VAC line only)
Environmental	RoHS compliant
Warranty	7 years (RWS-B series)

TYPICAL APPLICATIONS

Industrial automation and control panels · semiconductor fabrication equipment · test and measurement systems · broadcast and communications racks · LED signage and displays