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INDUSTRIAL PRODUCT DATASHEET

Power Adapter Kit for reBot Arm B601-RS

This is a 600W high-efficiency industrial-grade AC-DC switching power supply delivering a stable DC 48V, 12.5A output.

SKU	UPDATED	PRICE
100054289	2026-11-11 06:37:21	$79.00(Excl. VAT)



Overview



This is a 600W high-efficiency industrial-grade AC-DC switching power supply delivering a stable DC 48V, 12.5A output. It features a selectable input voltage switch for 115VAC or 230VAC (compatible with a wide range of 90–264VAC) and achieves a typical efficiency of up to 92%. Designed for robust performance, it includes comprehensive protection circuits against Short Circuit, Overload, Over Voltage, and Over Temperature. The integrated cooling fan features intelligent on/off control based on thermal load. Fully compliant with international safety standards including IEC/UL 62368-1 and CCC (GB4943.1), this unit is ideal for industrial automation, control systems, and electronic instrumentation. It boasts exceptional reliability with an MTBF \> 1,000,000 hours and supports universal US/CN/EU power cords.

Key Features

01 **High Efficiency Design — Typical efficiency up to 92% (48V model), reducing energy costs and heat generation.**

02 **Wide Range Input — Selectable 90–132VAC / 180–264VAC via switch; withstands 300VAC surge for up to 5 seconds.**

03 **Robust Multi-Protection —**

Features Overload (Constant Current Limit 105–150%, auto-shutdown after 3s), Over Voltage (55.2–64.8V, latch-off), Over Temperature, and Short Circuit protection. All protections feature auto-recovery.

04 **Smart Cooling System —**

Built-in intelligent temperature-controlled fan; activates at ≥50°C and stops at ≤40°C to maximize lifespan.

05 **Extreme Environment Ready — Operates reliably from -20°C to +65°C (full load) and up to 5000m altitude.**

06 **Low Noise Output — Ripple & Noise ≤ 360mVp-p (measured at 20MHz bandwidth).**

07 **Global Safety Certified — Complies with IEC/UL 62368-1, CCC (GB4943.1), BSMI, and EAC TP TC 004 standards.**

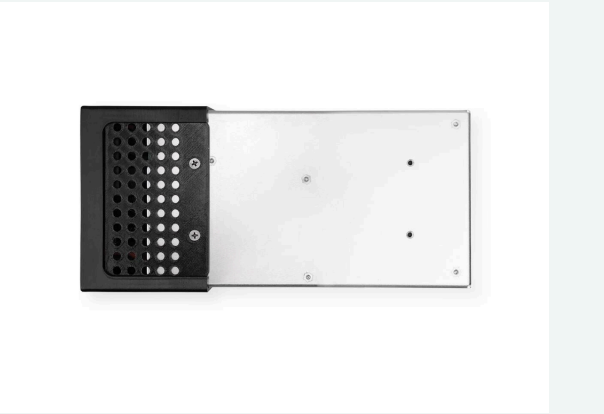
08 **Superior Reliability — MTBF \> 1,533,400 hours (calculated per Telcordia SR-332).**

09 **Anti-Vibration Design — Withstands 5G vibration (10–500Hz) for 60 minutes in each axis (X, Y, Z).**

Product Gallery











Resource Links

- https://www.seeedstudio.com/Power-Adapter-Kit-for-reBot-Arm-B601-RS-p-6873.html

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