

Custom Power Supply RFQ Checklist

P&A International — engineering-led contract manufacturer + vetted partner-factory network. The more of this you can share, the faster we return a proposed design and quote.

1. What to send for a fast, accurate quote

- Type: external adapter (desktop / wall plug-in), enclosed, open-frame, DIN-rail or on-board (SMPS)
- Input voltage range and frequency (e.g. 90-264 VAC, 50/60 Hz) or DC input
- Output voltage(s), current/wattage per rail, and regulation/ripple targets
- Single or multi-output; adjustable, remote-sense or PMBus/control needs
- Efficiency target (e.g. DoE Level VI / CoC Tier 2) and standby power
- Safety + EMC standards (IEC/UL 62368-1, CE/UKCA, medical 60601, EMC class B)
- Isolation, hold-up time, inrush, protections (OVP/OCP/OTP/SCP)
- Connectors, cable/plug type (interchangeable AC blades?), and mechanical envelope
- Operating temperature, cooling (convection/fan), ingress protection (IP)
- MeanWell or other reference part you want an equivalent or improvement on
- Target cost, prototype quantity, and annual volume or call-off pattern

2. Power supply selection quick reference

Decision	Guidance
Form factor	External desktop/wall adapter for portable and consumer gear; enclosed for industrial; open-frame to embed inside equipment; on-board SMPS where the converter sits on your PCB.
Topology	Flyback for low-mid power; forward / LLC resonant for higher power and efficiency; PFC front-end above ~75 W to meet harmonics limits.
Efficiency	Specify DoE Level VI / CoC Tier 2 and no-load power if the unit ships externally; it drives topology, magnetics and thermal design.
Safety class	IEC/UL 62368-1 for ITE/AV, 60601 for medical (2x MOPP where needed); creepage/clearance and isolation built to the target class.
Protections	Define OVP, OCP, OTP, SCP and hold-up time up front so they are designed in, not bolted on.

3. How we work

Send your spec → one dedicated engineer reviews it and confirms the design → you receive a proposed design and indicative price (typically within 48 hours) → qualified samples with full test data in 10–15 working days → on approval we scale into volume through our vetted partner-factory network, where every supplier is ISO 9000 certified or better.

Send your enquiry and files to support@pa-international.com.au — or use the quote form on the Power Supplies page. No project too big or too small.