

SMPS Transformer

RFQ Checklist & Selection Quick Reference

Share as much of the detail below as you can — the more we have, the faster one dedicated engineer can return a proposed design and indicative pricing (typically within 48 hours). P&A International is an engineering-led contract manufacturer; every supplier in our network is ISO 9000 certified or better.

1. What to send us for a fast, accurate quote

- Schematic or topology, plus switching frequency
- Input/output voltages, currents and power (turns ratio if known)
- Isolation and safety requirements, and target standards
- Mechanical envelope — height, footprint, mounting — and thermal limits
- Target cost and annual volume or call-off pattern
- Any reference design, competitor part number or physical sample

2. Which SMPS topology? - quick reference

Option	Best for
Flyback	Low-power isolated rails - adapters, chargers, aux.
Forward / bridge	Mid- to high-power forward, push-pull, half/full-bridge.
LLC resonant	Soft-switching, high efficiency.
Planar	Low-profile, high power density.

3. Design factors that shape the quote

- **Topology first:** flyback / forward / push-pull / bridge / LLC - sets core and winding.
- **Core & material:** EE/EF/ETD/EFD, RM/PQ or planar; ferrite grade balances loss, saturation and cost.
- **Leakage & efficiency:** interleaving/sandwiching control leakage and AC loss (efficiency, EMI).
- **Thermal:** bobbin, wire gauge (litz) and potting keep the part in its thermal limit.
- **Isolation & safety:** reinforced/triple-insulated, creepage/clearance to IEC 62368-1 / 61558, CE, UL.

Send your completed checklist (and any drawing or sample) and one dedicated engineer will respond with a proposed design and indicative pricing. No project too big or too small.