

POWER ADAPTER QC CHECKLIST - v1.0

For: OEM incoming inspection | Source: YHYadapter / YHY-CONTENT | 2026-08-25

Rule: any safety-related failure (OCP/SCP/OVP/isolation) = lot reject. Attach to batch record.

STAGE 1 - DOCUMENTATION & COMPLIANCE

1.1	Certificate of Conformity / test reports match the exact model delivered	☐	☐
1.2	Certification listing numbers verified in public database against model	☐	☐
1.3	Certificate holder name matches manufacturer on PO	☐	☐
1.4	Batch/lot number on packing list matches units in shipment	☐	☐
1.5	Country of origin / customs declarations consistent with invoice	☐	☐
1.6	Material declarations (RoHS/REACH where required) on file	☐	☐

Failure rule: quarantine batch; request corrected documents; no release until complete.

STAGE 2 - INCOMING QUALITY CONTROL (IQC) SAMPLING

Plan: AQL 1.0 major / 2.5 minor (or agreed plan). Sample per AQL table. Compare against approved golden sample.

2.1	Visual: enclosure finish, seams, mold marks, scratches	☐	☐
2.2	Label: model, input/output ratings, certification marks, polarity, date code	☐	☐
2.3	Dimensions: L/W/H, connector fit, blade alignment	☐	☐
2.4	Connector: plug type, wire gauge, wire length, strain relief, polarity	☐	☐
2.5	Accessories: interchangeable plugs, cables, inserts complete	☐	☐
2.6	Markings legible; label adhesion test passed	☐	☐

Failure rule: model/rating/connector deviation = major defect regardless of sample size.

STAGE 3 - ELECTRICAL TESTING (ATE / FUNCTIONAL)

100% ATE coverage recommended; otherwise statistically valid sample + supplier ATE reports.

3.1	Output voltage - no load / nominal / full load ($\pm 5\%$)	☐	☐
3.2	OCP trip point per datasheet	☐	☐
3.3	SCP - safe shutdown + recovery	☐	☐
3.4	OVP (where applicable) per datasheet	☐	☐
3.5	Ripple & noise at full load per datasheet (mVpp)	☐	☐
3.6	Efficiency 25/50/75/100% load - meets declared tier (Level VI / ErP)	☐	☐
3.7	Input current / inrush behavior per datasheet	☐	☐
3.8	Polarity & connector wiring correct	☐	☐

Failure rule: any safety-related failure = lot-rejecting defect (not unit-level repair).

STAGE 4 - AGING / BURN-IN

4.1	Aging duration per agreement (e.g., 2h @ 40°C full load)	☐	☐
4.2	Load condition during aging (full / representative)	☐	☐
4.3	Aging room temperature control verified	☐	☐
4.4	Post-aging functional retest performed	☐	☐
4.5	Batch aging failure-rate record received	☐	☐

Failure rule: post-aging failures indicate marginal components - escalate to supplier.

STAGE 5 - PACKAGING, LABELING & SHIPPING

5.1	Packaging per agreement (bag / retail box / bulk / ESD)	☐	☐
5.2	Unit label matches order (model, rating, certs, date code)	☐	☐
5.3	Carton marking: model, qty, batch, destination, handling	☐	☐
5.4	Quantity verified per carton and per shipment	☐	☐

5.5	Foam/insert protection adequate for freight mode	☐	☐
5.6	Desiccant / instructions present where specified	☐	☐

DECISION

ACCEPT	Docs OK . AQL within limits . electrical passes . aging on file	>Release to stock
REJECT	Major defect above AQL / safety failure / doc mismatch	Quarantine > corrective action > re-inspect
RE-INSPECT	Minor defects near limit / isolated issue	100% re-inspect or raise sample rate

Batch / Lot No.: _____ Model: _____ Qty: _____

Inspector: _____ Date: _____ Decision: _____

Certification availability depends on product model, application requirements and destination market. Verify every certification listing against the exact model. YHYadapter manufacturing reference: 19-stage process, 100% ATE, aging 2h/40°C/full load.