

Automatic Transfer Switch

Product Technical Sourcing Proposal
Electronics & Energy Systems

ZGNALI®



Real supplier reference image. Final brand, model and appearance depend on selected quotation.

RECOMMENDED SUPPLY CONFIGURATION

Start with an ATS sized from the confirmed maximum load and coordinated with the upstream protection. For a mains-generator installation, specify the required pole arrangement, automatic generator-start signal, mechanical and electrical interlocking, manual operation and adjustable transfer delays.

Product Overview, Applications & Primary Use

ATS unit with microprocessor controller, generator monitoring and synchronisation protection.

Technical sourcing approach

- Confirm the real operating duty and site conditions before comparing models.
- Compare supplier quotations against one common technical specification.
- Require a factory test, drawings, manuals and a critical-spares list.
- Plan freight, inspection, installation interfaces and after-sales support before purchase.

Applications and primary use

- Automatic transfer between utility power and a standby generator when the preferred source fails.
- Generator start/stop signalling and controlled return to utility power after voltage stabilises.
- Power continuity for factories, workshops, commercial buildings and other sites with essential loads.
- New installations or replacement panels where source ratings and protection coordination are verified.



Product-Specific Technical Specification

Selection parameter	Required function / value	Buyer or site input
System voltage and frequency	Match both incoming sources and the site distribution system	State phase, line voltage and frequency
Rated current	Carry the calculated continuous load without overheating	Provide maximum demand, load list or transformer/generator rating
Pole arrangement	Switch phases and neutral as required by the earthing design	Confirm 3-pole or 4-pole requirement
Transfer device	Breaker, contactor or dedicated switch mechanism with positive interlocking	State required short-circuit and breaking duty
ATS controller	Monitor voltage, frequency, phase condition and source availability	Confirm transfer, retransfer and generator cool-down delays
Generator interface	Provide compatible dry-contact start/stop control and status feedback	Share generator controller model and signal requirements
Manual operation	Allow safe local operation and testing when automatic control is unavailable	Confirm whether bypass/isolation is required
Enclosure and installation	Protect components for the actual indoor or outdoor environment	State IP requirement, cable entry and mounting arrangement
Indication and communication	Display source status, alarms and switch position	List required meters, remote contacts or communication protocol

Buyer checklist and quotation requirements

- Provide a single-line diagram showing utility, generator, ATS and outgoing load connection.
- State system voltage, frequency, phase arrangement and whether the neutral must be switched.
- Provide maximum load current or the connected-load and demand calculation.
- Confirm generator rating, controller model and the required remote-start contact logic.
- State available short-circuit level and upstream/downstream protective-device ratings.
- Confirm transfer delays, retransfer delay, generator warm-up/cool-down and test-mode requirements.
- State indoor/outdoor location, temperature, dust, enclosure rating and cable-entry direction.
- Request wiring diagrams, factory test records, spare-parts list and a video of the offered unit operating.

Final technical parameters, included accessories and acceptance criteria must be confirmed in the supplier quotation, test report and purchase contract. Do not purchase from photographs alone.

Indicative Product Pricing & Supply Guide

PRODUCT QUOTATION BASIS

Final ATS pricing follows the confirmed rated current, pole arrangement, transfer mechanism, short-circuit duty, controller functions, enclosure, accessories, inspection scope and delivery terms.

Supply component	Indicative planning range	Quotation basis
ATS panel or transfer unit	US\$3k-30k	Sized to confirmed current and source arrangement
Protection, controls and enclosure	US\$1k-8k	Only required breakers, metering and interfaces
Freight and clearance	US\$2k-10k	Consolidated shipment where practical
Cabling, installation and testing	US\$1k-6k	Local installation with supplier commissioning support
Low-entry ATS project total	US\$7k-54k	Final price depends on current, poles and fault rating

Technical sourcing and delivery process

Phase 1	Define requirement and request comparable quotations - 1 to 2 weeks
Phase 2	Technical clarification, negotiation and inspection plan - 1 to 3 weeks
Phase 3	Manufacture or refurbishment - typically 3 to 10 weeks
Phase 4	Shipping and customs clearance - typically 3 to 7 weeks
Phase 5	Local installation, training and trial operation - 1 to 3 weeks

These are non-binding planning ranges. Final product price and delivered cost depend on the confirmed specification, accessories, inspection, freight, customs, exchange rate and destination.

Sanaatchi Support & Contact

- Supplier search using one confirmed product specification
- Side-by-side technical and commercial quotation comparison
- Factory test, documentation and pre-shipment inspection coordination
- Lowest-cost practical logistics planning from China to Afghanistan
- Installation-interface, spare-parts and after-sales coordination

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Supplier image references

- Supplier image reference: <https://image.made-in-china.com/2f0j00bnwczhRaZlgN/Millisecond-Level-Switching-Dual-Power-Automatic-Transfer-Switch-AT-S-for-Mains-Generator-Photovoltaic-Power-Supply.jpg>
- Supplier image reference: <https://image.made-in-china.com/2f0j00tbzimAkEngBe/ATS-630A-3p-4p-Aisikai-Automatic-Transfer-Switch.jpg>