

Wind Turbine Controller

Product Technical Sourcing Proposal
Electronics & Energy Systems



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

RECOMMENDED SUPPLY CONFIGURATION

Size the package from measured energy demand, site resource and grid/generator conditions. Confirm module or turbine rating, inverter/controller functions, structure, protection, cabling, storage need and installation environment.

Product Overview, Applications & Primary Use

Turbine controller with SCADA monitoring, voltage protection and battery charge management.

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

- On-grid, off-grid or hybrid energy supply for the confirmed site load.
- Industrial or commercial power support with generation matched to actual demand.
- Expansion of an existing system after voltage and control compatibility are checked.
- Installation after structural, wind/solar resource and electrical protection review.



Product-Specific Technical Specification

Selection parameter	Required function / value	Buyer or site input
Site load	Generation sized from daily energy and peak power	Provide bills/load profile
Resource/site	Use measured solar or wind and installation conditions	Provide location and survey
Generation equipment	Rated output and components suited to climate	Confirm module/turbine scope
Inverter/controller	Correct grid, battery and generator interfaces	Provide system voltage and mode
Structure	Safe mounting for roof/ground/tower and wind loads	Provide drawings and soil/roof data
Protection/cabling	DC/AC isolation, earthing and surge protection	Provide single-line diagram
Monitoring	Required local and remote performance data	State communications
Storage	Battery capacity and chemistry only when required	Provide autonomy and cycling need

Buyer checklist and quotation requirements

- Provide location, electricity bills, peak load and daily load profile.
- State on-grid, off-grid or hybrid operation and generator interface.
- Confirm roof/ground/tower area, structure and environmental conditions.
- Provide system voltage, utility connection and single-line diagram.
- State battery autonomy and critical-load requirements if storage is needed.
- Confirm protection, earthing, monitoring and cable-run scope.
- Request component datasheets, warranties and expected-energy calculation.

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 pricing for Wind Turbine Controller follows the confirmed technical specification, required rating or capacity, included accessories, inspection scope, delivery terms and destination.

Supply component	Indicative planning range	Quotation basis
Generation equipment	US\$3k-30k	Sized to confirmed load and resource
Inverter, structure and protection	US\$1k-8k	Only required system components
Freight and clearance	US\$2k-10k	Consolidated shipment where practical
Cabling, installation and testing	US\$1k-6k	Local execution with design support
Low-entry renewable package total	US\$7k-54k	Final price follows capacity and storage

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/2f0j00wQEoZDLhkib/Fkj-Gt-5kw-Hybrid-Wind-Solar-Charge-Controller-for-on-Grid-Wind-System-with-Dump-Load-Vertical-Wind-Turbine-Generator-Controller.jpg>

- Supplier image reference:
<https://image.made-in-china.com/2f0j00lkPqhHQcCeoM/1200W-Wind-Generator-Controller-12V-24V-48V-MPPT-Solar-Wind-Turbine-Charge-Controller.jpg>