

AR12.5-30KW Wind turbine (Off-Grid)



Generator

Blades diameter: 12(M)
Rated rotor speed: 150(r/m)
Rated speed:12(m/s)
Rated power:30KW
Max power:35KW
Output voltage: 300V/360V/380V/400V(can adjust to what you need)
Start up wind speed: 3(m/s)
Work speed:3-30(m/s)
Security wind speed:50(m/s)
Generator shell material: Pressure cast iron



Blades

Material of blades: FRP Lay-up by hand
Number of blades: 3PCS
Length of blades: 5.9M



Dome

Material of dome: FRP Lay-up by hand
Number of dome: 1PCS



Free standing tower (can also be guy tied tower)

Height of pole:15 (can adjust to what you need)
Thickness: 8 mm
Tower diameter: 400(mm)
Flange: 470*470*20 (mm)
Sections of tower: 3
Material: Q235 Steel pipe
Surface treatment: painting against decaying



Controller with dump

Rated Wind Input Power: 30kW
Rated Battery Voltage: 360V/380V_{DC}/400V(Can adjust to what you need)
Floating Charge Voltage: 480V_{DC}
Control Mode: PLC (Programmable Logic Control)
Display Method: LCD (LCD touch screen)
Display Parameter: Battery Voltage, Charging Current, state parameter, wind speed.
Cooling Method: Fan
Protection Type: protection 、 Battery reverse-connect protection 、 Battery open circuit protection、 wind turbine automatic brake and Manual brake protection
Operation Ambient Temperature: -40~50°C
Operation Altitude: ≤4000m
Operation Ambient Humidity: 0~90%,no condensing
*Communication interface (optional) :RS485/USB/GPRS/WIFI/Ethernet
*Temperature compensation (optional) -4mv/°C/2V,-35°C~+80°C,Accuracy:±1°C
Controller Size (mm) Weight (kg): 500*500*960 56Kg
Dump load Size (mm) Weight (kg): 850*710*470 85Kg
Please find the more specs detail in the specs sent separately



Hybrid inverter

Rated Output Capacity: 30kw
 Rated Battery Voltage: 380V_{DC} /400V
 Over Voltage Point: DC480V
 Permitted: DC320V-DC460V
 Output Waveform: Pure Sine Wave
 Display Method: LCD
 Display Parameter: DC voltage, electricity voltage, inverter voltage, inverter current, fault code, fault alarm
 Cooling Method: Fan
Rated Output Voltage: 400v/380V/220V_{AC}
 Total Harmonic Distortion: Sine wave output ≤2% (Linear load) ≤5% (Non-linear load)
Voltage accur: 400v/380v/AC220V±3%
 Output Frequency: 50/60HZ±0.1%
 Dynamic Response: 4% (Load 0←50%→100%)
 Overload Ability: 120% 3min、150% 10s
 Inverting Efficiency: Max. 90%
 Noise (1m) : ≤40dB
 Dielectric Strength: AC1500V 50Hz 1min; AC500V 1min No breakdown or arcing
 Protection Type:
 Under voltage, overvoltage protection, output overload, short circuit, over-temperature protection
 Work model: Inverter priority, city or municipal electric power back-up priority, inverter back-up
 Operation Ambient Temperature: 0~90%,no condensing
 Operation Altitude: ≤2500m
 Operation Ambient Humidity: 0~90%,no condensing

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Packing

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PLYWOOD CASE