

WD+ WIND WIND TURBINE

100-400W Series

Low Start Up Speed

High Wind Energy Utilization

Beautiful Design

Low Vibration



Main Specification

Model	WD-120A	WD-220A	WD-320A	WD-420A
Rated power (w)	100W	200W	300W	400W
Maximum power (w)	120W	220W	320W	420W
Rated voltage (v)	12/24V			
Start-up wind speed (m/s)	3m/s			
Rated wind speed (m/s)	11m/s			
Survival wind speed (m/s)	50m/s			
Operating temperature (m)	- 40℃ -80℃			
Noise at max power (dBa)	less than 50dBa			
Brake	by controller			
Number of blades	3/5piece			
Blades material	Nylon fiber			
Generator type	3 phase permanent magnet AC generator			
Magnet material	NdFeB			
Generator case	Casting aluminum alloy			
Speed regulation	Automatically adjust windward direction			
Certificates	CE, ISO14001, ISO 9001, TUV			
Packing(mm)	730*280*245			
Gross weight (kg)	8kgs	8kgs	8.5kgs	9kgs

WD+ WIND WIND TURBINE

800-1000W Series

Low Start Up Speed

High Wind Energy Utilization

Beautiful Design

Low Vibration



Main Specification

Model	WD-820M5	WD-1050M5
Rated power (w)	800W	1000W
Maximum power (w)	820W	1050W
Rated voltage (v)	24/48V	
Start-up wind speed (m/s)	2.5m/s	
Rated wind speed (m/s)	12m/s	12.5m/s
Survival wind speed (m/s)	40m/s	
Guy cable tower height (m)	6m	
Noise at max power (dBa)	less than 50dBa	
Brake	by controller	
Number of blades	3	
Blades material	Nylon fiber	
Generator type	3 phase permanent magnet AC generator	
Magnet material	NdFeB	
Generator case	Casting aluminum alloy	
Speed regulation	Automatically adjust windward direction	
Certificates	CE, ISO14001, ISO 9001, TUV	
Warranty	3 Years	
Gross weight (kg)	30kgs	32kgs

WD+ WIND ENERGY VERTICAL AXIS WIND TURBINE

200-1000W Series

Low Start Up Speed

High Wind Energy

Beautiful Design

Low Vibration



Main Specification

Model	WD-215V	WD-320V	WD-425V	WD-540V	WD-655V	WD-1100V
Rated power (w)	200W	300W	400W	500W	600W	1000W
Maximum power (w)	215W	320W	425W	540W	655W	1100W
Rated voltage (v)	12/24V/48V(Customized for up 600W)					
Start-up wind speed (m/s)	1.3m/s					
Rated wind speed (m/s)	11m/s					
Survival wind speed (m/s)	40m/s					
Number of blades	2 piece					
Blades material	Glass/Basalt					
Mount Height(m)	7~12m					
Control System	Electromagnet					
Generator type	3 phase permanent magnet AC generator					
Magnet material	VAWT -25~+45°C					
	Controller -10~+45°C					
	Inverter 0~+40°C					
Work environment humidity	VAWT ≤90%					
	Controller and inverter≤80%					
Overspeed protection	Electromagnetic brake					
Overload protection	Electromagnetic brake and unloading unit					

WDM SERIES MPPT CHARGE CONTROLLER

Auto identification and selection of system voltage

High performance 32 bits CPU

Wide PV input voltage range, convenient for system configuration

MPPT charge mode, increase power usage efficiency of solar panels

LCD display, intelligent batteries charging status display

Running status display of solar panels, batteries and loads



Main Specification

Model	WD48-10	WD48-20	WD48-30	WD48-40	WD48-50	WD48-60
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INPUT

Max. PV Input Voltage	150V						
MPPT Voltage Range	12V	15V - 120V					
	24V	30V - 120V					
	48V	60V - 120V					
Max. PV Input Power	12V	140 W	280 W	420 W	560 W	700 W	840 W
	24V	280 W	560 W	840 W	1120 W	1400 W	1680 W
	48V	560 W	1120 W	1680 W	2240 W	2800 W	3360 W

BATTERY CHARGING

Battery System Voltage	12V/24V/48V auto recognition						
Max. Charging Current	10A	20A	30A	40A	50A	60A	
Charging mode	Maximum Power Point Tracking (MPPT)						
Charging method	Three stages: Constant Current (MPPT); Constant Voltage; Floating Charge						
Max. Charging Efficiency	99%						
Battery Types Supported	Lead Acid Battery, Gel Battery, Flooded Battery, Lithium Battery						

PROTECTION

Overload Protection	1.5 times rated current 3s overload protection action, automatic recovery in 1 minute						
Output Short Circuit Protection	Hardware protection fuses, automatic recovery in 10 minute						
Over Temperature Protection	Charging or discharging stopped when controller temperature over 75°C, Charging or discharging recovery when temperature back to 55°C						

OTHERS

Cooling Method	Intelligent Control Cooling Fan						
Communication Method	RS485			Remote Control		Optional	
Operating Ambient Temperature	-15°C - 50°C			Own Consumption		< 20mA	
Storage Temperature	-20°C - 60°C			Protection Grade		IP20	
Dimensions	185x135x65mm			240x143x74mm			
Net Weight	1.15 kgs			1.80 kgs			
Packing Information	380x250x520mm,11.0kgs,8pcs			420x310x 270mm,8.0kgs/4pcs			

Main Specification

Model	WD48-80	WD48-100	WD96-50	WD96-100	WD192-50	WD216-50
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INPUT

Max. PV Input Voltage	150V		300V		450V	
MPPT Voltage Range	48V	60V - 120V				
	96V	96V - 240V				
	192V	192V - 360V				
	216V	216V - 360V				
Max. PV Input Power	48V	4480 W	5600 W			
	96V			5600 W	11200 W	
	192V				11200 W	
	216V					12600 W

BATTERY CHARGING

Battery System Voltage	12V/24V/48V auto		96V		192V	216V
Max. Charging Current	80A	100A	50A	100A	50A	50A
Charging mode	Maximum Power Point Tracking (MPPT)					
Charging method	Three stages: Constant Current (MPPT); Constant Voltage; Floating Charge					
Max. Charging Efficiency	99%					
Battery Types Supported	Lead Acid Battery, Gel Battery, Flooded Battery, Lithium Battery					

PROTECTION

Overload Protection	1.5 times rated current 3s overload protection action, automatic recovery in 1 minute					
Output Short Circuit Protection	Hardware protection fuses, automatic recovery in 10 minute					
Over Temperature Protection	Charging or discharging stopped when controller temperature over 75°C, Charging or discharging recovery when temperature back to 55°C					

OTHERS

Cooling Method	Intelligent Control Cooling Fan					
Communication Method	RS485		Remote Control		Optional	
Operating Ambient Temperature	-15°C - 50°C			Own Consumption		< 20mA
Storage Temperature	-20°C - 60°C			Protection Grade		IP20
Dimensions	280x180x100mm		315x250x108mm		400x300x162mm	
Net Weight	3.7kgs		4.5kgs	5.6kgs	10kgs	11kgs
Packing	490x350x350mm/4pcs		370x310x340mm/2pcs		460x380x210mm/1pc	
	16.0kgs/4 pcs		11kgs/2pcs	13kgs/2pcs	11kgs/1pc	12kgs/1pc
Warranty	2 years					

Main Specification

Model	RF240-50	RF384-50	RF192-100	RF216-100	RF240-100	RF384-100
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INPUT

Max. PV Input Voltage	500V	800V	450V	500V	800V
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MPPT Voltage Range	192V	192V - 360V				
	216V	216V - 360V				
	240V	240V - 400V				
	384V	384V - 640V				

Max. PV Input Power	192V	22400 W				
	216V	25200 W				
	240V	14000 W				28000 W
	384V	22400 W				44800 W

BATTERY CHARGING

Battery System Voltage	240V	384V	192V	216V	240V	384V
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Max. Charging Current	50A	50A	100A	100A	100A	100A
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Charging mode Maximum Power Point Tracking (MPPT)

Charging method Three stages: Constant Current (MPPT); Constant Voltage; Floating Charge

Max. Charging Efficiency 99%

Battery Types Supported Lead Acid Battery, Gel Battery, Flooded Battery, Lithium Battery

PROTECTION

Overload Protection 1.5 times rated current 3s overload protection action, automatic recovery in 1 minute

Output Short Circuit Protection Hardware protection fuses, automatic recovery in 10 minute

Over Temperature Protection Charging or discharging stopped when controller temperature over 75°C, Charging or discharging recovery when temperature back to 55°C

OTHERS

Cooling Method Intelligent Control Cooling Fan

Comunication Method	RS485	Remote Control	Optional
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Operating Ambient Temperature	-15°C - 50°C	Own Consumption	< 20mA
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Storage Temperature	-20°C - 60°C	Protection Grade	IP20
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Dimensions	400x300x162mm	530x410x162mm
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Net Weight	10kgs	11kgs	14.5kgs	17.5kgs
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Packing	460x380x210mm/1pc		600x490x210mm/ 1pc	
	11kgs/1pc	12kgs/1pc	16kgs/1pc	19kgs/1pc

Warranty 2 years

WDM SERIES MODIFIED SINE WAVE INVERTER

Features:

Modified sine wave inverters can meet all kinds of electrical loads.

Protections: short circuit, high temperature, overvoltage, low voltage, short circuit, overload protection and other functions.

Advanced circuit design, high conversion efficiency, rich interface, stable output voltage.

Metal enclosures, reasonably designed and good heat dissipation.

Advanced anti-interference technology, full-featured protection circuit and soft-start circuit, convenient operation mode.

Soft-start function to eliminate cold start failure, instantaneous drop and fast recovery function to reduce the instantaneous overload when start-up.



Main Specification

Model:	WDM1000	WDM1200	WDM1500	WDM2000	WDM3000	WDM5000
Max Continuous Power (W)	1000W	1200W	1500W	2000W	3000W	5000W
Peak Load Power Rate(W)	2000W	2400W	3000W	4000W	6000W	10000W
Input Voltage (V)	DC12V/DC24V/DC36V/DC48V/DC60V					
Output Voltage Range (V)	AC110V/AC120V/AC220V/AC240					
Output Frequency (Hz)	50Hz or 60Hz					
USB	USB					
Output Waveform	Modified Sine Wave					
Cooling	Fan					
Product Size (MM)	262*150*76	265*150*76	307*150*76	393*150*107	454*180*142	598*180*168
N.W. (KGS)	1.6kgs	1.7kgs	1.9kgs	3.3kgs	4.9kgs	8kgs
Packing (MM)	640*425*290	640*425*290	640*425*290	645*485*345	505*505*430	672*252*237
PCS Per Carton	8pcs	8pcs	6pcs	6pcs	4pcs	4pcs

WD+ 12V series Battery

Suitable for

Uninterruptable Power Supply(UPS)

Solar Wind Energy System

Telecommunication Equipment

Alarm and Security System

DC Power Supply



Main Specification

Models NO.	Voltage&Capacity (AH / 10Hour)	Length (mm)	Width (mm)	Height (mm)	Gross Weight (KGS)
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AGM Battery

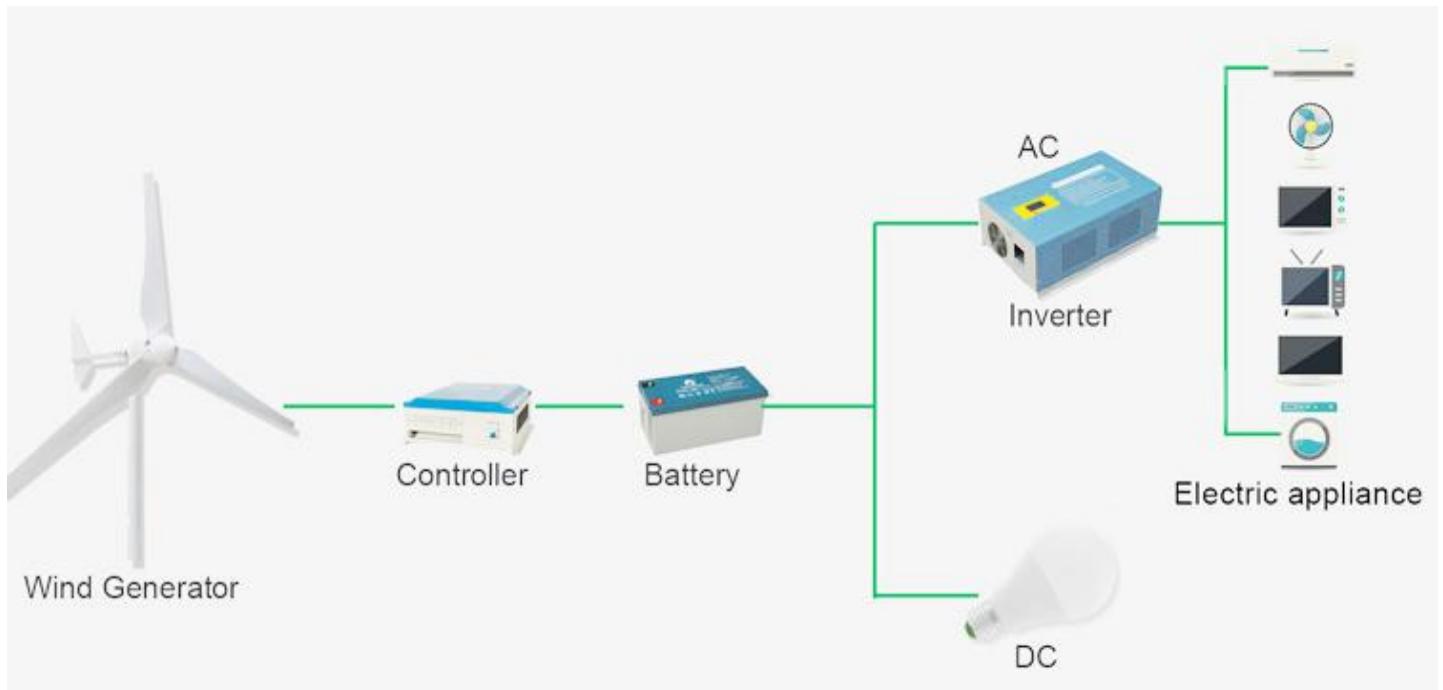
WDA24-12	12V 24AH	176	166	125	7
WDA50-12	12V 50AH	229	138	228	14
WDA65-12	12V 65AH	350	166	174	21
WDA100-12	12V 100AH	331	176	214	30
WDA120-12	12V 120AH	406	174	238	35
WDA150-12	12V 150AH	483	170	240	46
WDA200-12	12V 200AH	522	240	245	57
WDA250-12	12V 250AH	522	240	245	65

GEL Battery

WDG24-12	12V 24AH	176	166	125	7.5
WDG50-12	12V 50AH	229	138	228	14
WDG65-12	12V 65AH	350	166	174	21
WDG100-12	12V 100AH	331	176	214	30
WDG120-12	12V 120AH	406	174	240	35
WDG150-12	12V 150AH	483	170	240	46
WDG200-12	12V 200AH	522	240	245	58
WDG250-12	12V 250AH	522	240	245	66

Off Grid Wind System

Off-grid wind system is suitable for regions without grid connection or power instability . Off grid wind energy systems including solar module ,storage battery ,controller ,inverter ,mounting brackets etc .



MAIN SPECIFICATION

Model	WDW1KW-OFF	WDW2KW-OFF	WDW3KW-OFF	WDW5KW-OFF
Wind Turbine	1 Set	1 Set	1 Set	1 Set
Guy Cable Pole	1KW	2KW	3KW	5KW
Controller	1 Set	1 Set	1 Set	1 Set
Inverter	1KW	2KW	3KW	5KW
Battery	Customized			
Mounting Structure	On Roof / On Ground			
Cables	Battery cable & PV cable			
MC4 connector	1 Set			
System Vac	110V,120V, 220-240V, 110/220V, 120/240V			

Remarks:

The Above System Configuration For Initial Designing, The System Configuration Are Subject to Changing Depends on Your Final Installation Conditions and Requirements.For More Details, Please Send Your Inquiry To WD⁺ Energy Team. Thank You!