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*New generation
APACHE wind turbine*

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SPECIFICATIONS

General

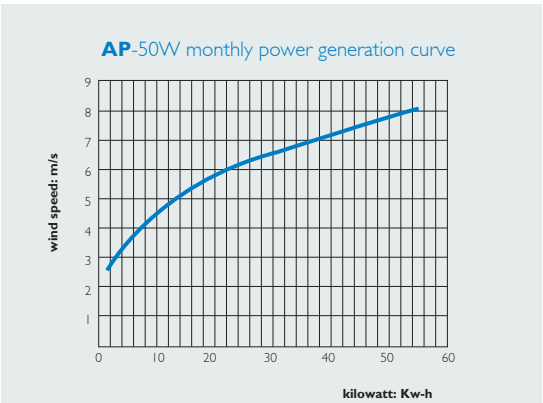
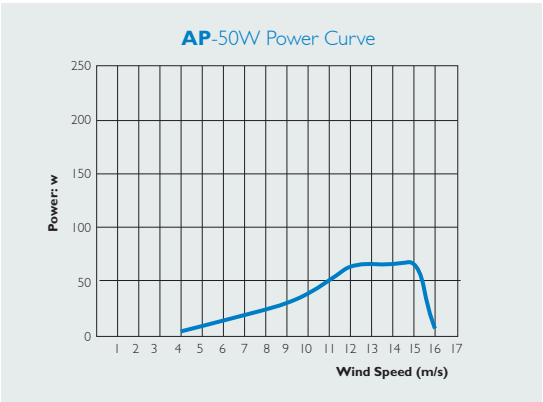
Model	AP-50W
Wind turbine Name	Apache
Rated power	50W
Rated DC voltage	DC 12V/24V
Rated current	4.4A/2.2A
Rated speed	1050r/m
Max power	65W
Number of blade	3 pcs

Performance

Energy Output	6 kWh/month (at average annual 5m/s)
Starting wind speed	3m/s
Cut-in wind speed	3.5m/s
Cut-out wind speed	15m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	1080mm
Blade material	Carbon fiber reinforced plastics

Others Features

Engine	Three-phase permanent magnel generator
Output line anti-winding device	Overall three-phase commutator
Over-speed wind protection	Tip stall protection + turned protection + Electromagnetic brake
Life span	10 years
Equipment surface protection	Galvanization plastic coating
Working temperature	-40°C-70°C
N.W.	2.6kg
Packing material	Carton box and foam material
packing dimension	620*260*220mm
G.W.	3.2kg





AP-100W

SPECIFICATIONS

General

Model	AP-100W
Wind turbine Name	Apache
Rated power	100W
Rated DC voltage	DC 12V/24V
Rated current	8.8A/4.4A
Rated speed	860r/m
Max power	115W
Number of blade	3 pcs

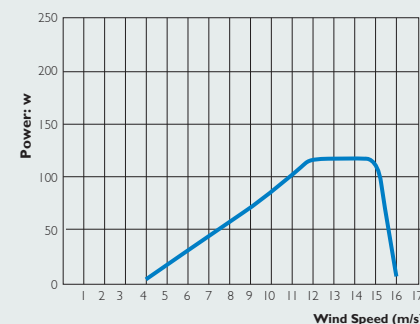
Performance

Energy Output	12 kWh/month (at average annual 5m/s)
Starting wind speed	3m/s
Cut-in wind speed	3.5m/s
Cut-out wind speed	15m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	1080mm
Blade material	Carbon fiber reinforced plastics

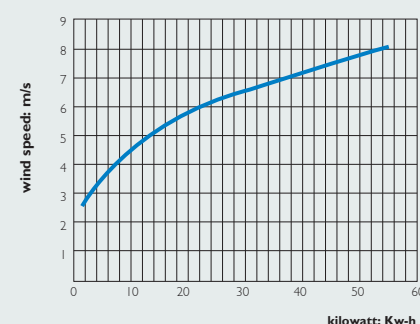
Others Features

Engine	Three-phase permanent magnel generato
Output line anti-winding device	Overall three-phase commutator
Over-speed wind protection	Tip stall protection + turned protection + Electromagnetic brake
Life span	10 years
Equipment surface protection	Galvanization plastic coating
Working temperature	-40°C-70°C
N.W.	2.8kg
Packing material	Carton box and foam material
packing dimension	620*260*220mm
G.W.	3.5kg

AP-100W Power Curve



AP-100W monthly power generation curve



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AP-300W

SPECIFICATIONS

General

Model	AP-300W
Wind turbine Name	Apache
Rated power	300W
Rated DC voltage	DC 12V/24V
Rated current	25A/12.5A
Rated speed	1400r/m
Max power	350W
Number of blade	6 pcs

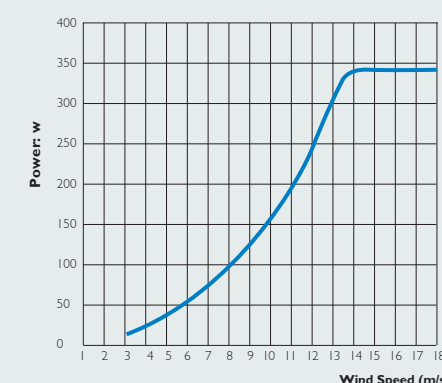
Performance

Energy Output	18 kWh/month (at average annual 5m/s)
Starting wind speed	2m/s
Cut-in wind speed	3m/s
Cut-out wind speed	15m/s
Security wind speed	40m/s
Rated wind speed	12.5m/s
Rotor diameter	1130mm
Blade material	Carbon fiber reinforced plastics

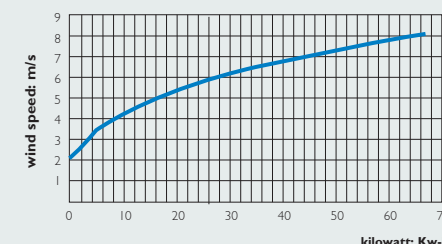
Others Features

Engine (generator)	Three-phase permanent magnel generator
Output line anti-winding device	Overall three-phase commutator
Over-speed wind protection	Tip stall protection + turned protection + Electromagnetic brake
Life span	15 years
Equipment surface protection	Aluminum oxide + plastic coating
Working temperature	-45°C-70°C
N.W.	5.2kg
Packing material	Carton box and foam material
packing dimension	620*260*220mm
G.W.	6.2kg

AP-300W Power Curve



AP-300W Monthly Output



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AP-300W

SPECIFICATIONS

General

Model	AP-300W
Wind turbine Name	Apache
Rated power	300W
Rated DC voltage	DC 12V/24V
Rated current	25A/12.5A
Rated speed	1850r/m
Max power	380W
Number of blade	3 pcs

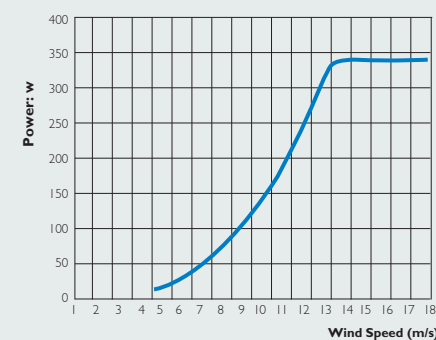
Performance

Energy Output	18 kWh/month (at average annual 5m/s)
Starting wind speed	3.5m/s
Cut-in wind speed	4.5m/s
Cut-out wind speed	18m/s
Security wind speed	45m/s
Rated wind speed	12.5m/s
Rotor diameter	1170mm
Blade material 3blades	Carbon fiber

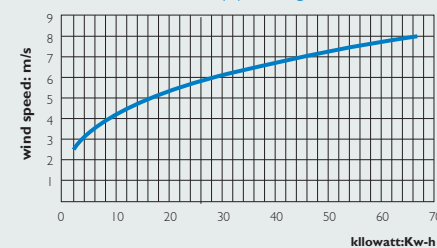
Others Features

Engine (generator)	Three-phase permanent magnel generator
Output line anti-winding device	Overall three-phase commutator
Wind cap (wheel hub)	glass fiber
Over-speed wind protection	Tip stall protection + turned protection + Electromagnetic brake
Life span	15 years
Equipment surface protection	Aluminum oxide + plastic coating
Working temperature	-45°C-70°C
N.W.	6.4kg
Packing material	Carton box and foam material
packing dimension	690*350*230mm
G.W.	7.5kg

AP-300W Power Curve



AP-300W monthly power generation curve



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AP-300W

SPECIFICATIONS

General

Model	AP-300W
Wind turbine Name	Apache
Rated power	300W
Rated DC voltage	DC 12V/24V
Rated current	25A/12.5A
Rated speed	1400r/m
Max power	350W
Number of blade	6 pcs

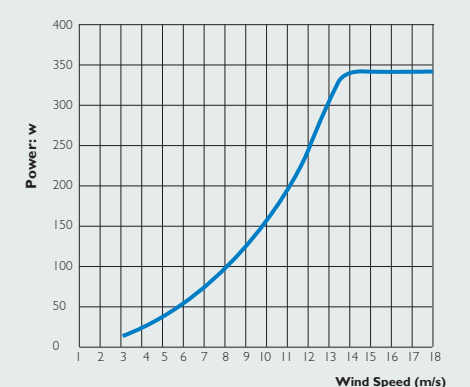
Performance

Energy Output	18 kWh/month (at average annual 5m/s)
Starting wind speed	2m/s
Cut-in wind speed	3m/s
Cut-out wind speed	15m/s
Security wind speed	40m/s
Rated wind speed	12.5m/s
Rotor diameter	1130mm
Blade material	Carbon fiber reinforced plastics

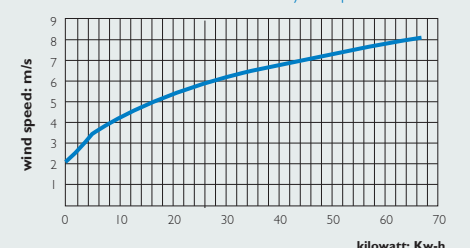
Others Features

Engine (generator)	Three-phase permanent magnel generator
Output line anti-winding device	Overall three-phase commutator
Over-speed wind protection	Tip stall protection + turned protection + Electromagnetic brake
Life span	15 years
Equipment surface protection	Aluminum oxide + plastic coating
Working temperature	-45°C-70°C
N.W.	5.6kg
Packing material	Carton box and foam material
packing dimension	590*390*230mm
G.W.	6.6kg

AP-300W Power Curve



AP-300W Monthly Output



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AP-400W

SPECIFICATIONS

General

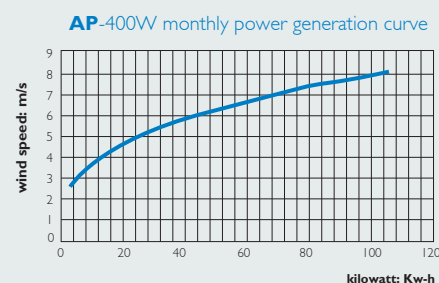
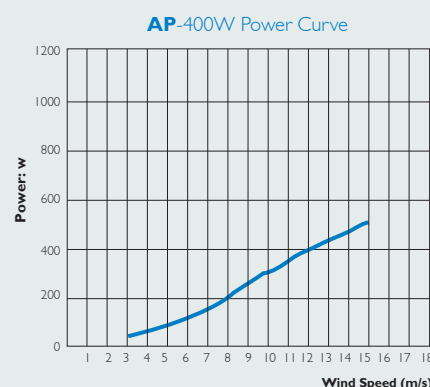
Model	AP-400W
Wind turbine Name	Apache
Rated power	400W
Rated DC voltage	DC 12V/24V
Rated current	33A/17A
Rated speed	740r/m
Max power	460W
Number of blade	3 pcs/ 5 pcs

Performance

Energy Output	24 kWh/month (at average annual 5m/s)
Starting wind speed	3m/s/ 2.5m/s
Cut-in wind speed	3.5m/s 3m/s
Cut-out wind speed	15m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	1450mm
Blade material	Carbon fiber reinforced plastics

Others Features

Engine	Three-phase permanent magnel generator
Output line anti-winding device	Over all three-phase commutator
Over-speed wind protection	Tip stall protection +turned protection + Electromagnetic brake
Life span	15 years
Equipment surface protection	Aluminum oxide + plastic coating
Working temperature	-40°C-70°C
N.W.	14.5kg/ 15.3kg
Packing material	Carton box and foam material
packing dimension	980*460*245mm
G.W.	15.5kg/ 16.3kg



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AP-600W

SPECIFICATIONS

General

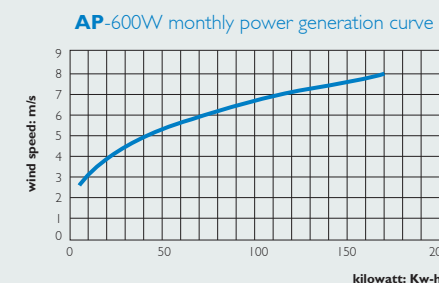
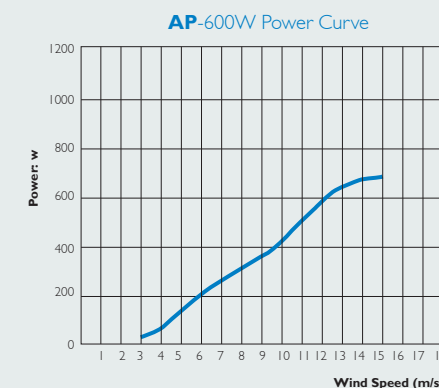
Model	AP-600W
Wind turbine Name	Apache
Rated power	600W
Rated DC voltage	DC 12v/24v/48v
Rated current	50A/25A/12.5A
Rated speed	640r/m
Max power	680W
Number of blade	5 pcs

Performance

Energy Output	30 kWh/month (at average annual 4.5m/s)
Starting wind speed	2.5m/s
Cut-in wind speed	3m/s
Cut-out wind speed	15m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	1850mm
Blade material	Carbon fiber reinforced plastics

Others Features

Engine	Three-phase permanent magnel generator
Output line anti-winding device	Over all three-phase commutator
Over-speed wind protection	Tip stall protection + turned protection + Electromagnetic brake
Life span	15 years
Equipment surface protection	Aluminum oxide + plastic coating
Working temperature	-45°C-70°C
N.W.	19.9kg
Packing material	Carton box and foam material
packing dimension	980*460*245mm
G.W.	22.1kg



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AP-800W

SPECIFICATIONS

General

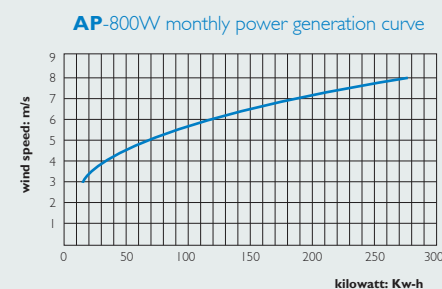
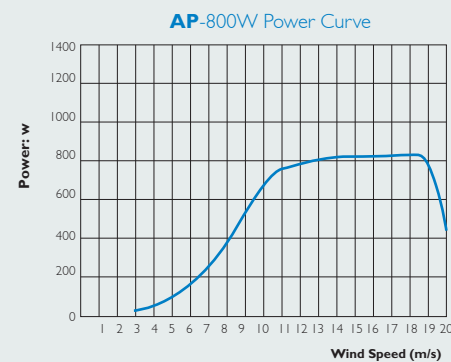
Model	AP-800W
Wind turbine Name	Apache
Rated power	800W
Rated DC voltage	DC 24V
Rated current	33A
Rated speed	620r/m
Max power	900W
Number of blade	5 pcs

Performance

Energy Output	58 kWh/month (at average annual 5m/s)
Starting wind speed	3m/s
Cut-in wind speed	3.5m/s
Cut-out wind speed	15m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	1870mm
Blade material	Carbon fiber reinforced plastics

Others Features

Engine	Three-phase permanent magnel generator
Output line anti-winding device	Over all three-phase commutator
Over-speed wind protection	Tip stall protection + turned protection + Electromagnetic brake
Life span	15 years
Equipment surface protection	Aluminum oxide + plastic coating
Working temperature	-45°C-70°C
N.W.	22.53kg
Packing material	Carton box and foam material
packing dimension	830*530*450mm
G.W.	25kg



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AP-1000W

SPECIFICATIONS

General

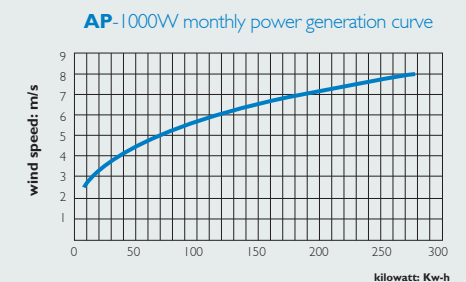
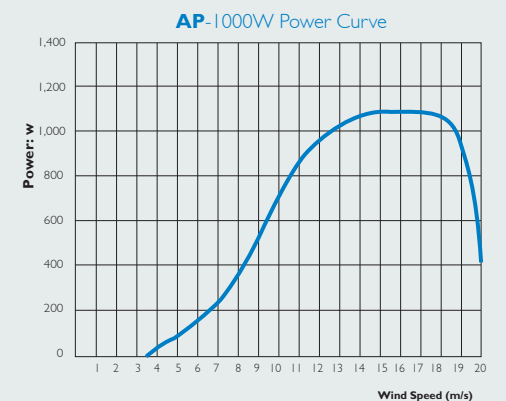
New Model	AP-1000
Wind turbine Name	Apache
Rated power	1000W
Rated DC voltage	DC 24/48v
Rated current	42/21A
Rated speed	650r/m
Max power	1200W
Number of blade	3/5 pcs (package Individually)

Performance

Energy Output	58 kWh/month (at average annual 5m/s)
Starting wind speed	3m/s
Cut-in wind speed	3.5m/s
Cut-out wind speed	18m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	2200mm
Blade material	Fiber glass-reinforced plastics

Others Features

Engine	Three-phase permanent magnel generator
Output line anti-winding device	Over all three-phase commutator
Over-speed wind protection	Tip stall protection + tuned protection + electromagneti brake
Life span	15 years
Equipment surface protection	Aluminum oxide + plastic coating
Working temperature	-45°C-70°C
N.W.	30/ 33kg
Packing material	Carton case and foam material
packing dimension	830*530*450mm / 1100*235*110*mm for blad
G.W.	33/ 36kg



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AP-2000W

SPECIFICATIONS

General

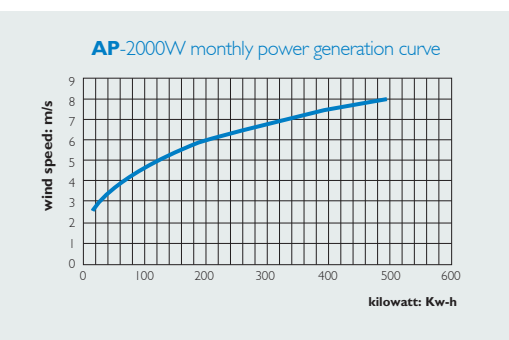
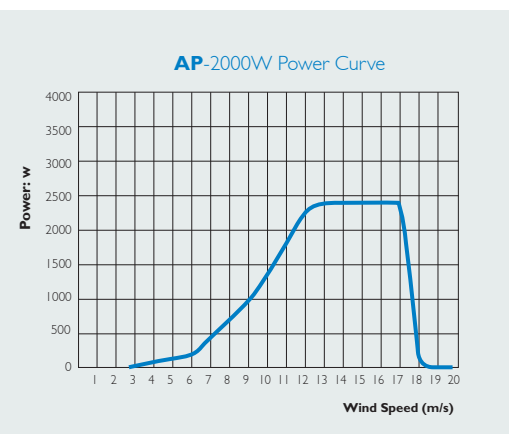
Model	AP-2000
Name	Apache
Rated power	2000W
Rated DC voltage	DC 48V
Rated current	42A
Rated speed	510r/m
Max power	2500W
Number of blade	5pcs

Performance

Energy Output	120 kWh/month (at average annual 5m/s)
Starting wind speed	3m/s
Cut-in wind speed	3.5m/s
Cut-out wind speed	18m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	2900mm
Blade material	FRP (fiber glass reinforced plastics)

Others Features

Engine	Three-phase permanent magnel generator
Output line anti-winding device	Over all three-phase commutator
Over-speed wind protection	Automatically tuned protection + magnetic braking + Unloading pool brake
Life span	15 years
Equipment surface protection	Galvanization plastic coating
Working temperature	-45°C-70°C
N.W.	81kg
Packing material	Wooden case and Carton foam material
packing dimension	840*680*470mm / 1650*240*120mm for blades
G.W.	95kg



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AP-3000W

SPECIFICATIONS

General

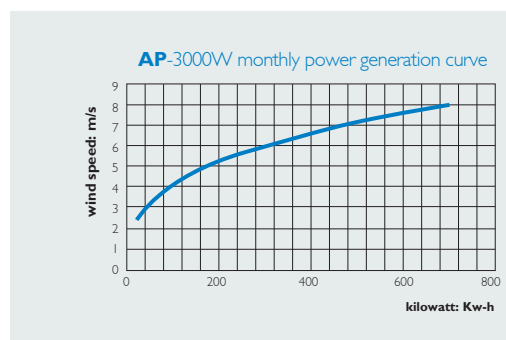
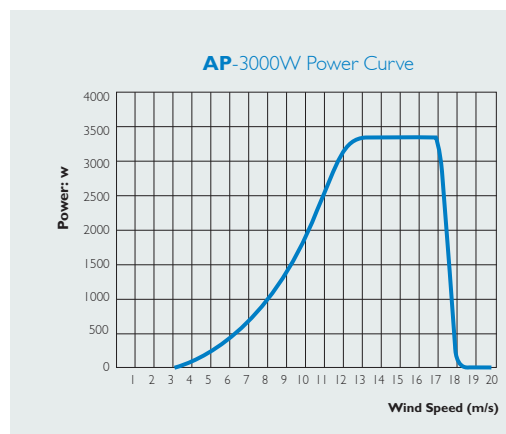
Model	P-3000W
Name	Apache
Rated power	3000W
Rated DC voltage	DC 48V
Rated current	62A
Rated speed	450r/m
Max power	3000W
Number of blade	5 pcs

Performance

Energy Output	160 kWh/month (at average annual 5m/s)
Starting wind speed	3m/s
Cut-in wind speed	3.5m/s
Cut-out wind speed	18m/s
Security wind speed	45m/s
Rated wind speed	12m/s
Rotor diameter	3300mm
Blade material	FRP (fiber glass reinforced plastics)

Others Features

Engine	Three-phase	Three-phase permanent magnel generator
Output line anti-winding device	Over all three-phase commutator	
Over-speed wind protection	Automatically tuned protection +magnetic braking + Unloading pool brake	
Life span	15 years	
Equipment surface protection	Galvanization plastic coating	
Working temperature	-45°C-70°C	
N.W.	98kg	
Packing material	Wooden case and Carton foam material	
packing dimension	840*680*470mm / 1650*240*120mm for blades	
G.W.	112kg	



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