

An environmentally clean, quiet and attractive source of electrical energy

100 W =
CLEANING UP OF
TEN TON
OF POLLUTANTS

High Build Quality
Wind Generators

**Unitron
Energy**

unitronenergy.com



Australia | Africa | South East Asia | Europe | USA

Blowing winds of change



Features

- Low cut-in wind speeds.
- High output for low winds.
- Rated power attained at 10.5 m/s.
- Silent carbon composite blades.
- Un-matched build quality.
- Superior AKZO paint finish.
- Designed for harsh climates.
- High efficiency alternator.
- State-of-art controller.

Applications

- Wind-solar hybrid power plants
- Wind electric direct water pumping systems
- Wind-solar area/road lighting systems
- Wind-solar hybrid systems for cellular towers
- Mini wind farms up to 400 KW
- Mini wind-solar hybrid farms up to 500 KW



About Unitron

- Oldest Small Energy Company from India
- More than 12 years of experience
- In-house facility for Carbon composite blades
- In-house facility for PMG including magnets
- In-house Power Electronics expertise
- Largest installed base

(All models CE certified & IEC 61400-2 in process)

UNITRON ENERGY SYSTEMS Pvt. Ltd.

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Unitron UE - 6 / 650 w



Features

- Lowest cost per watt
- Neo magnets for long life
- High output for low winds
- Unique angle governing
- Sustained output in high winds
- Ruggedised body frame
- Stainless steel components
- Whisper quiet

Typical uses

Remote homes,

Unitron UE - 33 / 3.3 kw



Features

- Lowest cost per watt
- Neo magnets for long life
- High output for low winds
- Unique angle governing
- Sustained output in high winds
- Ruggedised body frame
- Stainless steel components
- Whisper quiet

Typical uses

Farm houses, Water pumping Village electrification & RHCs etc.

AVERAGE WIND SPEED

MPH	M/S	KMPH	MONTHLY GENERATION
9	4.0	14.5	54 kWh
10	4.5	16	72 kWh
11	4.9	17.7	91 kWh
12	5.4	19.3	161 kWh
Weibul k = 2			

ELECTRICAL

MODEL	UE 6
Diameter, Meters/Feet	2.2/7.2
Swept Area, Sqm/ Sqft (1)	3.7/43
Number of Blades	3
Blade Material	Carbon Fibre Reinforced
Rated Power, Watts (1)	550
@rated Wind, M/s / Mph	10/22
Rated Power, Watts (2)	650
@wind Speeds M/s / Mph	10.5/25
Peak Power @ 12.5 M/s	750
Cut-in Wind, M/s / Mph	2.7/6
Generator Poles / RPM	10/600

MECHANICAL

Prop Tip To Center cm/in	28/11
Min. Tip Clearance cm/in	20/8
Max Tower Diam At Tip cm/in	6/2.5
Mounting Pipe/tube (5)	P 2.5"scd 40
Tower Top Weight	32 kg.
Lateral Thrust	650 nts

AVERAGE WIND SPEED

MPH	M/S	KMPH	MONTHLY GENERATION
9	4.0	14.5	269 kWh
10	4.5	16	362 kWh
11	4.9	17.7	476 kWh
12	5.4	19.3	568 kWh
Weibul k = 2			

ELECTRICAL

MODEL	UE 33
Diameter, Meters/Feet	4.65/15
Swept Area, Sqm/ Sqft (1)	16.4/175
Number of Blades	3
Blade Material	Carbon Fibre Reinforced
Rated Power, Watts (1)	2700
@rated Wind, M/s / Mph	10/22
Rated Power, Watts (2)	3300
@wind Speeds M/s / Mph	10.5/25
Peak Power @ 12.5 M/s	3600
Cut-in Wind, M/s / Mph	2.7/6
Generator Poles / RPM	16/375

MECHANICAL

Prop Tip To Center cm/in	56/22
Min. Tip Clearance cm/in	36/14
Max Tower Diam At Tip cm/in	38/16
Mounting Pipe/tube (5)	P 5"scd 40
Tower Top Weight	77 kg.
Lateral Thrust	3200 nts

Unitron UE - 15 / 1.5 kw



Features

- Lowest cost per watt
- Neo magnets for long life
- High output for low winds
- Unique angle governing
- Sustained output in high winds
- Ruggedised body frame
- Stainless steel components
- Whisper quiet

Typical uses

Small homes,
Signalling & Beacons

Unitron UE - 15plus / 1.8 Kw



AVERAGE WIND SPEED

MPH	M/S	KMPH	MONTHLY GENERATION
9	4.0	14.5	117 kWh
10	4.5	16	166 kWh
11	4.9	17.7	202 kWh
12	5.4	19.3	288 kWh
Weibul k = 2			

ELECTRICAL

MODEL	UE 15
Diameter, Meters/Feet	3.2/11
Swept Area, Sqm/ Sqft (1)	9.2/95
Number of Blades	3
Blade Material	Carbon Fibre Reinforced
Rated Power, Watts (1)	1350
@rated Wind, M/s / Mph	10/22
Rated Power, Watts (2)	1500
@wind Speeds M/s / Mph	10.5/24
Peak Power @ 12.5 M/s	1700
Cut-in Wind, M/s / Mph	2.7/6
Generator Poles / RPM	16/375

MECHANICAL

Prop Tip To Center cm/in	35/14
Min. Tip Clearance cm/in	28/11
Max Tower Diam At Tip cm/in	6/2.5
Mounting Pipe/tube (5)	P 2.5"scd 40
Tower Top Weight	34 kg.
Lateral Thrust	1200 nts

AVERAGE WIND SPEED

MPH	M/S	KMPH	MONTHLY GENERATION
9	4.0	14.5	170 kWh
10	4.5	16	212 kWh
11	4.9	17.7	287 kWh
12	5.4	19.3	346 kWh
Weibul k = 2			

ELECTRICAL

MODEL	UE 15 Plus
Diameter, Meters/Feet	3.40/11.30
Swept Area, Sqm/ Sqft (1)	9.40/100
Number of Blades	3
Blade Material	Carbon Fibre Reinforced
Rated Power, Watts (1)	1630
@rated Wind, M/s / Mph	10/22
Rated Power, Watts (2)	1800
@wind Speeds M/s / Mph	10.5/24
Peak Power @ 12.5 M/s	2200
Cut-in Wind, M/s / Mph	2.7/6
Generator Poles / RPM	16/375

MECHANICAL

Prop Tip To Center cm/in	35/14
Min. Tip Clearance cm/in	28/11
Max Tower Diam At Tip cm/in	6/2.5
Mounting Pipe/tube (5)	P 5"scd 40
Tower Top Weight	39 kg.
Lateral Thrust	1260 nts

Unitron UE - 42 / 4.2 kw



Features

- Lowest cost per watt
- Neo magnets for long life
- High output for low winds
- Unique angle governing
- Sustained output in high winds
- Ruggedised body frame
- Stainless steel components
- Whisper quiet

Typical uses

Mini Wind farms, Water pumping,
Water Purification, Telecom &
Cathodic Protection

Unitron UE - 42plus / 5.1 Kw



AVERAGE WIND SPEED

MPH	M/S	KMPH	MONTHLY GENERATION
9	4.0	14.5	310 kWh
10	4.5	16	412 kWh
11	4.9	17.7	550 kWh
12	5.4	19.3	685 kWh
Weibul k = 2			

ELECTRICAL

MODEL	UE 42
Diameter, Meters/Feet	4.90/16
Swept Area, Sqm/ Sqft (1)	19/205
Number of Blades	3
Blade Material	Carbon Fibre Reinforced
Rated Power, Watts (1)	3400
@rated Wind, M/s / Mph	10/22
Rated Power, Watts (2)	4200
@wind Speeds M/s / Mph	11/25
Peak Power @ 12.5 M/s	4.6 KW
Cut-in Wind, M/s / Mph	2.7/6
Generator Poles / RPM	16/375

MECHANICAL

Prop Tip To Center cm/in	56/22
Min. Tip Clearance cm/in	36/14
Max Tower Diam At Tip cm/in	38/16
Mounting Pipe/tube	P 5"scd 40
Tower Top Weight	89kg.
Lateral Thrust	4000 nts

AVERAGE WIND SPEED

MPH	M/S	KMPH	MONTHLY GENERATION
9	4.0	14.5	380 kWh
10	4.5	16	500 kWh
11	4.9	17.7	660 kWh
12	5.4	19.3	885 kWh
Weibul k = 2			

ELECTRICAL

MODEL	UE 42 Plus
Diameter, Meters/Feet	5.24/17.20
Swept Area, Sqm/ Sqft (1)	21.4/230
Number of Blades	3
Blade Material	Carbon Fibre Reinforced
Rated Power, Watts (1)	4200
@rated Wind, M/s / Mph	10/22
Rated Power, Watts (2)	5100
@wind Speeds M/s / Mph	11/25
Peak Power @ 12.5 M/s	5400
Cut-in Wind, M/s / Mph	2.7/6
Generator Poles / RPM	16/375

MECHANICAL

Prop Tip To Center cm/in	56/22
Min. Tip Clearance cm/in	36/14
Max Tower Diam At Tip cm/in	38/16
Mounting Pipe/tube (5)	P 5"scd 40
Tower Top Weight	98.5 kg.
Lateral Thrust	4200 nts