

## UTRE-BX-S012 UTRE-BX-S013 Wind-Solar Roadway Lighting System

### Features :

- ⊙ Self sustaining roadway lighting system using induction lamp technology powered by wind and solar energy
- ⊙ Housing is made of cast aluminum alloy for corrosion resistance and durability, pole is metal hot galvanized and powder painted for weather resistance
- ⊙ Ideal for remote installation where grid connection is either prohibitively expensive or non-existent
- ⊙ Ability to sustain operation for 7-14 days with no sun

### Lamp and ballast :

- ⊙ Ultra-Tech's 40W-60W round tubular induction lamps feature superior lighting efficiency, producing more visually effective lumens (VEL) per watt than other lighting sources
- ⊙ Rated lamp life of 100,000 hours, the equivalent of 11 years at 24 hours per day, 365 days per year with a warranty of 10 years or 50,000 hours which ever comes first
- ⊙ Instant strike, flicker free, no cool down required, insensitive to numbers of on/off, fast warm-up
- ⊙ Ultra-Tech's electronic ballast featuring optional Vari-Lume™ controlled dimming technology for linear and step dimming functions via light sensor, RF signal, carrier signal, motion detection, autoranging from 110V-277V, power factor >0.95
- ⊙ Induction lamps are full spectrum containing R/G/B and C/M/Y resulting in a high CRI



### Configurations :

There exist 4 possible configurations:

- 300W magnetic suspension wind generator, 120W 36V solar panel, one head 60W induction lamp, 12V 100Ah water proof lead acid battery, 32.8'(10m) pole
- 300W magnetic suspension wind generator, 75W 36V solar panel, one head 40W induction lamp, 12V 150Ah water proof lead acid battery, 32.8'(10m) pole
- 600W wind turbine, 750W 36V solar panel, two head 60W induction lamp, 12V 100Ah water proof lead acid battery, 32.8'(10m) pole
- 600W wind turbine, 100W 36V solar panel, two head 40W induction lamp, 12V 150Ah water proof lead acid battery, 32.8'(10m) pole

All systems come with an integral 24V controller

Wind turbine cut in speed 3.5m/sec

The one head lighting systems are suitable for urban environment, capable of lighting a one way two lane road of 26.3'\*2(8m\*2) width with achievable illumination >10Lx, 10H/d lighting hours (default settings: first three hours full power, next two hours at half power and the rest of the time according to the power available)

The two head lighting systems are suitable for urban environment, capable of lighting a two way two lane road of 8m\*2 width each lane with achievable illumination >10Lx, 10H/d lighting hours (default settings: first three hours full power, next two hours at half power and the rest of the time according to the power available)

### Applications :

- ⊙ Roadway lighting



### Fixture Specifications :

Fixture Model No.	Lamp	Wattage (W)	Lamp lumens (Lm)	Voltage (V)	Color Temperature (K)	Ambient (°C)	Installation	IP class	UL CUL
UTRE-S012-40W	RT40W	40	2600-3000	12-36	5000	-20~+50	Pole Mounted	IP65	Pending
UTRE-S013-60W	RT60W	60	3900-4500						

\* Note: Color Temperature 2720-6500K available upon request.