

# Off-Grid Solar Parking Lot & Street Lighting

A Technology to Manage, Control and Maintain off-grid systems over the Internet

## BEFORE THE SALE

- Site lighting and power analysis
- Configured to local conditions
- Quality components
- Extensive options
- Decorative & industrial poles, color choices
- Solar
- Choice of luminaires, arms
- Motion detection

## INSTALLATION

- Drill and drop – no cabling/trenching cost
- No technical training required
- 14 Smart Meters on phone to validate install
- Built in communications for Smart Off-Grid
- Proven, tested to meet lighting standards

## ONGOING

- Smart Off-Grid means 7x24x365 remote monitoring, control and servicing
- 80% reduction in maintenance costs
- Proactive maintenance, service calls eliminated
- Public website generated to promote green energy savings



# Remote Management & Control

Entire system is fully remote controllable and adjustable cloud-based software, including charging parameters, temperature compensation, remote solar panel troubleshooting and testing, emergency remote override, lighting profiles and more.

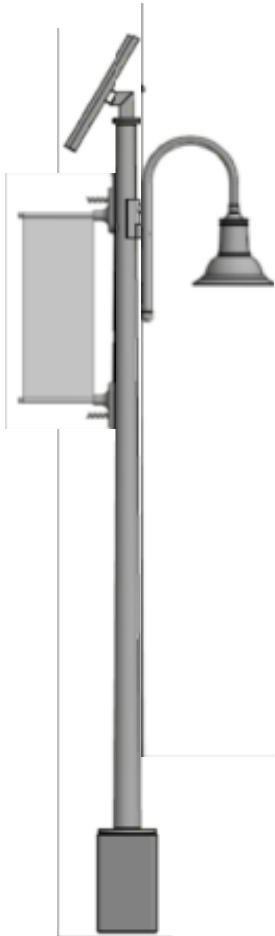


Installation remote commissioning test must be able to do a light test, solar panel test, battery test, short circuit tests, etc. Full ability to remotely control each individual system AND also all systems together as a group

- Smart Off-Grid remote management and monitoring service must be delivered by the supplier on an ongoing basis with remote technical trouble shooting and support
- Remote management and control is delivered via a Cloud-based service
- All communications between units and Cloud shall be fully encrypted
- System shall have ability to provide forward looking weather forecast for the site with indications of whether the system will run out of energy
- User configurable alarms for any system failures and also WARNING alarms should an anticipated outage be expected in the near future
- Ability to detect shading of the system during different times of the year and also be able to adjust individual systems based upon shading.
- Ability to adjust lights remotely to ensure system up time even during extra long 'no sun' and low sun periods, up to 5-10 days.



# EcoCharge Solar Off-Grid System



- PAINTED Black Metal pole – 20.5' pole including base enclosure at the bottom
  - K729 40W King luminaire light on a Bishops crook arm
  - Smart Off Grid Controller with cabling harness
  - **Includes 3 years of Smart Off-Grid cloud based monitoring and control**
  - **Includes 3 years of communications, cellular for single units and mesh/Ethernet or mesh/cellular for multi-pole project**
- The Monitoring is \$ 40 per year /per pole and the communications is \$ 15 per year/ per pole with a mesh network**
- Single 300 watt 60 cell solar panels and mounting hardware
  - Dual 140ah Long life deep cycle AGM, thick plate, lead acid batteries at 24vdc with a 7 year warranty

## **This Does Require a Concrete Foundation**

- Site soil analysis and civil engineering is responsibility of the customer.
- Shipping, Installation and Taxes are extra
- Payment terms 50% deposit, 50% prior to shipping O.A.C.
- Designed to AASHTO 90mph
- Should customer require ESA site inspection, this fee is not included by EcoCharge and is the responsibility of the customer and/or contractor. EcoCharge may be contracted if needed.
- Customer understands that full title and ownership of each component of the system transfers to the customer when shipped (F.O.B shipping and/or C.I.F., as applicable)



# EcoCharge Solar Off-Grid System



## Configuration:

- Painted Black Metal pole – 20.5' pole including base enclosure at the bottom
- Enduralite Sigma Series ESLD-40, 42W, 5,460 Lumens with pole mounting hardware on a 6' Light Arm
- Smart Off Grid Controller with cabling harness
- **Includes 3 years of Smart Off-Grid cloud based monitoring and control**
- **Includes 3 years of cellular communications for single pole projects, mesh/cellular or mesh/ethernet communications for multi-pole projects**
- Single 300 watt 60 cell solar panel and arm with mounting hardware
- Dual 140ah AGM, thick plate, deep-cycle, lead acid batteries at 24vdc with 7 year warranty

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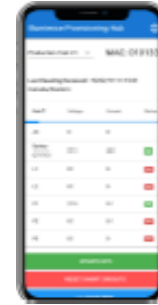


# A Technology to Manage, Control and Proactively Service Off-Grid Systems over the Internet

## Why Does Smart Off-Grid Matter?



## Most Cost Effective & Reliable System in the Market



- Smartphone App to Verify Installation
- SMART Controller Integrated Connectivity
- Remote Visibility & Control
- Increases Reliability & Reduces Maintenance
- Brighter Lights w/ Configurable Profiles
- Drill & Drop, Plug & Play Solutions
- Smaller Batteries Longer Life

