

Alpha Energy and Solar Power

Alpha has been providing reliable **power solutions** to the Broadband Cable, Telecommunications, Wireless, Traffic, Security, Utility, Transportation and the Oil and Gas industries for more than 35 years.

Through innovative engineering and a **commitment to excellence**, Alpha has become an industry standard for power conversion and UPS power applications.

With a **world class customer service** organization, Alpha provides excellent pre and post sale support, as well as complete installation, preventative maintenance and on-site field service. Alpha also provides solar and hybrid power solutions ranging from low priority applications to mission critical loads requiring **99.999%** uptime **24/7/365**.



Optimum Power Solutions

Premium, Standard and Economy Solution Designs for 12V, 24V and 48V Systems.

Make the Switch to Renewable Power with Alpha Energy!

- Proven Quality, Efficiency and Customer Support
- Technical Support is Available 24/7/365
- Commitment to Extreme Reliability
- Standard Sizing Options for Rapid Shipping and Field Deployment
- Modular Enclosure Design Allows for Easy Expansion, Reconfiguration and Accessorizing

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Patent Pending



Optimum Power Solutions* (OPS)

Are solar powered DC power supplies that can be configured to support loads of up to **200 Watts DC**. All system designs include the most recent advances in PV manufacturing, electronic controls and power management. Standard features for each specific system design include:

- Pulse Width Modulated or Maximum Power Point Tracking Battery Charging
- Maintenance Free Gel Battery Bank
- DIN Rail
- Lightning Protection
- NEMA 3R Powder Coated Aluminum Control and Battery Enclosure
- Complete Circuit Protection
- Low Voltage Load Disconnect to Protect Batteries from Severe Discharge Damage

Premium System Designs 5-year warranty

Handle critical loads that cannot tolerate any outages and must operate **24/7/365**, such as:

- Critical Security Systems
- Offshore Platforms
- Emergency Communications
- Marine Navigation Aids
- Traffic Control Backup
- Railroad Hot Box Detectors
- Military Applications



Standard System Designs 2-year warranty

Support loads that can **tolerate occasional outages** caused by unusual and extended periods of poor weather resulting in low insolation such as:

- Video Surveillance
- WIFI and Radio Repeaters
- Onshore Oil and Gas Monitoring
- Cathodic Protection
- Traffic Signaling and Monitoring
- Security Lighting
- Parking Meters

Economy System Designs 1-year warranty

Are applied to **non-essential loads** that can tolerate periodic outages based upon long periods of poor weather that results in low insolation, such as:

- Non-critical Lighting
- Water and Other Non-critical Environmental Monitoring
- Irrigation Control
- Security Gate Openers
- Event Power

Design Flexibility

Three OPS designs have been developed to provide maximum flexibility to match load and budget requirements. All three design options use the **best components available** and include a standard 25-year performance warranty on all solar panels with extended warranties available. Other options include:

- Multiple Output Breakers
- Data Logging of System Operating Parameters
- Alarm Outputs for Critical System Parameters
- DC to DC Power Conditioning
- DC to AC Power Conversion
- Additional Enclosures for Special Applications

Which System Design Fits Your Solar Power Needs?

In four easy steps, the new Alpha OPS Kit features a **web based configuration tool** that provides a system design based on basic information.

1. Select your location on the map
2. Enter your load specific information
3. The configuration tool will use sophisticated software to design three system options (Premium, Standard and Economy) utilizing complex data derived from NASA research
4. Select which of the three options best suits your requirements and contact an Alpha Energy Authorized Distributor to order your customized OPS Kit



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