

## NeverOff<sup>®</sup> Series Miniature Standby Power Sources

### Accessories for Olson Technology Links

#### Backup power source for critical CATV and communications elements that use low-voltage DC power.

Radio Base Stations and Repeaters — use with large batteries to maintain vital communication during natural disasters.

SCADA Systems — increase reliability with long-term back-up power.

Tower and Obstruction Lighting — maintain flashing beacons during an outage.

Remote Telemetry — tolerates huge voltage drops from long power lines.

Security Systems — keep essential security services such as video cameras, gate openers, etc., even when the power goes out.

Traffic Systems — maintain operation of roadway caution signs and LED traffic controls during an outage.

DC Industrial Controls — use back-up power for control and monitoring on the factory floor.

WiFi/WiMax Back-up Power — keeps communications up and running for public safety.

Grid-tie Solar Systems — charge 12 or 24 Volt batteries with high voltage DC.

Low Voltage Lighting — stays lit and provides safety on walkways, stairs, and mezzanines.



Olson Technology introduces the new *NeverOff Series Standby Power Sources*. While AC uninterruptible power supplies (UPS) have become ubiquitous in maintaining power to critical computer, network and communications applications, to date there has not been an equivalent DC UPS that can provide similar power backup functions for critical CATV and communications elements that are typically powered by low-voltage DC power. The *NeverOff* series can be utilized in a multitude of applications and provide long term battery standby power of up to eight hours or more. Units are available from +5 Volts out to up to +18 Volts output. There are a number of available output power options with loads of up to 100 Watts or more.

These units are all self-contained, and all battery packs are field changeable. The rugged design of these units provides for short circuit protection as well as high-energy transient protection. Typical applications and features includes:

- Powering drop amplifiers. Units can be customized to allow the use of the existing wall adaptor.
- Powering RFoG or HFC nodes similar to the Olson OTPN-800 Series.
- Powering Wireless devices to provide for uninterrupted VOIP service.
- All units provide constant regulated output voltage in the standby/ battery mode.

These units utilize the latest in battery technology and all battery packs are fully protected against over-voltage, under-voltage, as well as short circuits. Multiple connector options are available.

**Specifications**

**Model 101**

DC Input Voltage: +10 to +18 Volts DC  
 DC Output Voltage: Within 0.8 Volts of DC Input in-line power mode. Within ±0.5 Volts of specified output voltage in standby [battery] mode.  
 Run Time: 1.5 Watt load for 8 hours. 3 Watt load for 4 hours.  
 Charge Time: One to two hours when used with the Olson PIC power sources.\*  
 Connectors: Connectors: Specify from the following: Type F, 2.1mm x 5.5mm, 2.5 x 5.5mm, or a combination of any of the above.

**Model 201**

DC Input Voltage: +10 to +18 Volts DC  
 DC Output Voltage: Within 0.8 Volts of DC Input in-line power mode. Within ±0.5 Volts of specified output voltage in standby [battery] mode.  
 Run Time: 7 Watt load for 8 hours. 12.5 Watt load for 4 hours.  
 Charge Time: One to two hours when used with the Olson PIC power sources.\*  
 Connectors: Connectors: Specify from the following: Type F, 2.1mm x 5.5mm, 2.5 x 5.5mm, or a combination of any of the above.  
 Other Options: +5 Volt units are available on special order. Please specify the load and runtime requirements.

\*Special order units can be modified such that the existing power source can be utilized [See application photo's]. i.e. We can adapt lower the charging rate to accommodate the reserve remaining in the existing power supply. An excellent example is the Antronix MRA1-15 drop amplifier. It typically draws less than 0.12 Amps from a 12 Volt wall supply rated at 0.2 Amps. We can customize the charge rate so the total of the amplifier current draw and the maximum battery charge rate do not exceed the specifications of the wall supply.

**Physical Characteristics**

	Min	Typ	Max	Units
Operating Temperature	-10		+55	°C
Weight				
Model 101		XX		oz.
Model 201		xx		g
Model 101		XX		oz.
Model 201		xx		g
Dimensions (L x W x D)				
Model 101	4.0 x 2.5 x 1.5			in.
Model 201	102 x 64 x 38			mm
Model 101	4.0 x 4.0 x 2.4			in.
Model 201	102 x 102 x 61			mm

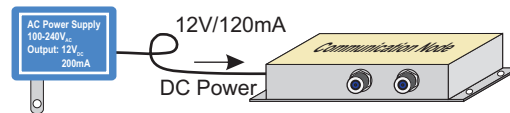


Figure 1 - Existing Customer Configuration

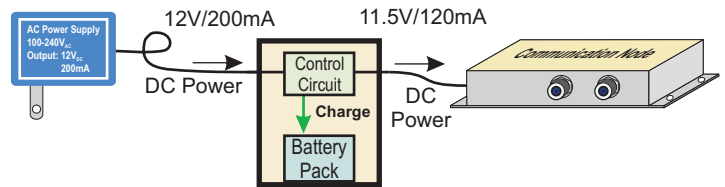


Figure 2 - Configuration with NeverOff on AC Power

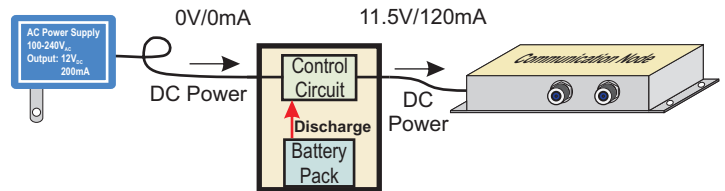


Figure 3 - Configuration with NeverOff on Battery Power



NeverOff Powering an Antronix MRA1 with Antronix wall supply.



NeverOff Model 201 powering an Olson OTPN-800H optical node with Olson OTPS-12A-PIC wall-mount supply.

**Ordering Information**

Model 101  
 Model 201

NeverOff Backup Power Source, 1.5W Load for 8 hours, 3W Load for 4 hours  
 NeverOff Backup Power Source, 7W Load for 8 hours, 12.5 Load for 4 hours