

## Inverter/Charger Controller and Single Battery Bank Monitor



### Integrated Battery Monitor and Inverter/Charger Control in a Single Panel

The Link 1000 is an instrumentation and control panel designed for use with Freedom series inverter/chargers operated with a single battery bank. With the Link 1000, you have a single battery bank monitoring system that reads like a fuel gauge for your batteries – displaying battery state-of-charge at a glance. With the touch of a keypad, you can independently control inverter and charger functions..

#### Product Features

- ▶ Digital numeric display automatically compensates for ambient conditions and selectively shows: DC volts and amps, battery amp hours consumed, time remaining to full discharge, fault conditions
- ▶ Multi-colored LED displays: approximate battery state of charge, AC input
- ▶ Push button control of power sharing, equalizing, battery set-up, independent inverter and charger on/off controls
- ▶ Second sense lead for voltage sensing on an additional battery bank
- ▶ Power Share and Idle Mode are easily set from the panel
- ▶ Compatible with 12 or 24 volt systems
- ▶ Includes precision DC shunt
- ▶ Easy to install
- ▶ One year warranty

#### Programmable Advanced Functions

- ▶ User programmable adjustments of the Freedom Inverter/Charger directly from the front panel
- ▶ Can be set for four different battery types including wet, gel and AGM
- ▶ Data is used to recall key information about the battery bank: charge efficiency, deepest discharge, average discharge, and other data

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### Electrical Specifications

<b>Voltage Measurement</b>	
Standard model auto range	0-19.90 VDC (0.05 V resolution) 0.0-50.0 VDC (0.1 V resolution)
<b>Amperage Measurement</b>	
+/- 500 amps	0-40 A +/- 0.1 A resolution 40-500 A +/- 1 A resolution
<b>Amp-Hour Measurement</b>	
Low range	+/- 0-199.9 Ah (0.1 hour resolution)
High range	+/- 200-1,999 Ah (1 hour resolution)
<b>Time Remaining Measurement</b>	
Low range	0 to 199.9 hours (0.1 hour resolution)
High range	0 to 255 hours (1 hour resolution)
<b>Power Requirements</b>	
DC power supply voltage	8-40 VDC
Power consumption	50-170 mA (display auto dims with ambient light) 25 mA (bar graph display @ 12 VDC)
<b>Shunt Type</b>	
Shunt	500 A / 50 mV (included)
<b>Accuracy</b>	
Voltage	+/- 0.6% of reading + 1 least count of resolution
Amperage	+/- 0.8% of reading + 1 least count of resolution
Amp-hours	Ah Error - time of measurement x current error

### General Specifications

<b>Dimensions (HxWxD)</b>	3.0 x 4.75 x 1.1" (75.5 x 120 x 27.3 mm)
<b>Weight (not including shunt)</b>	4.6 oz (130.4 g)
<b>Warranty</b>	One year
<b>Part number</b>	84-2019-02

Note: Specifications subject to change without notice.