



# System Communications

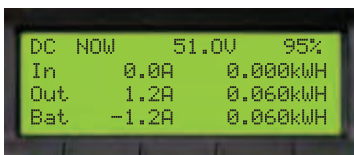
FLEXnet DC System Monitor

## FLEXnet™ DC

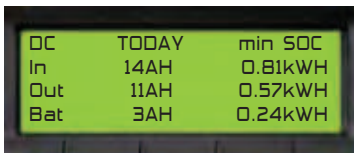
The OutBack FLEXnet DC is the ultimate DC System monitoring device. Integrated networked communications capability makes valuable, usable data available from a system viewable on an OutBack MATE communications device (screens shown below), providing information on system health, performance and efficiency. FLEXnet DC provides real state-of-charge (S.O.C.) information about the life and state of a battery bank.



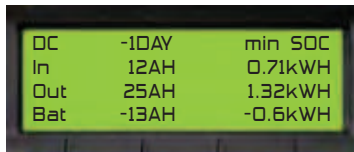
**Battery Status Screen** - easily see a system's current condition with this at-a-glance display. This screen shows an easy-to-interpret "fuel gauge" style status bar, current state of charge and whether batteries are currently charging or discharging. Useful for system owners who want a way to quickly understand the current state of their battery bank.



**Now Summary Screen** - monitor the amount of power a system is currently producing and consuming as well as the amount of power going IN and OUT of a battery bank. This screen also displays battery bank voltage and current state of charge, providing real-time production monitoring of DC sources such as a solar array or small wind turbine, as well as consumption by loads.



**Today Summary Screen** - monitor the cumulative energy a system has produced and consumed as well as the total amount of energy that has gone into daily battery charging. This screen also displays the day's lowest state of charge and allows viewing how overall system production compares to system consumption.



**History Summary Screen** - review historical energy production/consumption data for the most recent 128 days, including the minimum battery state of charge reached for each day. Useful for monitoring power system production and consumption trends.



## FLEXnet-DC Specifications

Battery Voltage Input Range	8.0 to 80.0VDC
Battery Voltage Resolution	0.1VDC
Number of Current Channels	One to Three (each can be a Source or Load)
Current Range (each channel)	-1000.0 amps to +1000.0 amps DC
Current Resolution	0.1 amps DC
State of Charge Display	0 to 100% (1% increments)
Aux Relay Configuration	SPST, Magnetic Latching Relay
Aux Relay Max Rating	5A @ 30VDC
Current Shunt Type (order separately)	500A / 50mV
Display	Primary: MATE, MATE2 or MATE3 Secondary: Five LED Indicators on front of FLEXnet DC
Battery AH Capacity Range	100 to 10,000 Amp Hours
Data Logging Memory	Most recent 128 Days
Programmable AUX Relay Settings	Battery Volts: Adjustable from 8.0 to 80.0VDC State of Charge: Adjustable from 0 to 100% Time Delay: Adjustable from 0 to 240 Minutes
Accuracy	0.5% of Reading +/- 2 LSDs per channel
Operating Temperature Range	0°C to 50°C (32° to 122°F)
Mounting	3/4" Panel Mount Breaker Slot or Surface Mount using Built-in Mounting Bars
Warranty	Standard 5 year
Weight	Unit: 5 oz. (0.14 kg) Shipping: 2 lbs. (0.91 kg)
Dimensions (H x W x L)	Unit: 0.7 x 3.7 x 5.5" (1.8 x 9.4 x 14 cm) Shipping: 2.1 x 9.0 x 11.5" (5.4 x 22.9 x 29.2 cm)