

# MERLIN EXPERT LITE BATTERY MONITOR

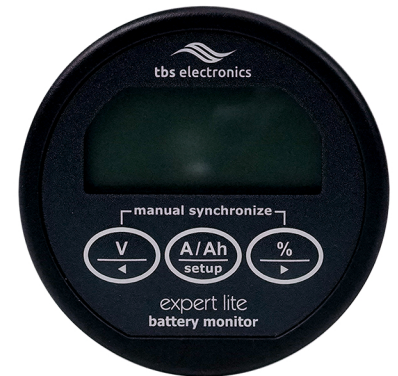
Merlin's Expert Lite is a high precision battery monitor focused on a simple readout, making it the ideal instrument for less technical end-users.

Defining the amount of energy available in a battery is a complex task since the battery age, discharge current and temperature influence the actual battery capacity. Merlin's Expert Series range of battery monitors are equipped with high performance measuring circuits, which in combination with complex software algorithms, are used to exactly determine the remaining capacity of your battery.

The Merlin Expert Lite Battery Monitor is focused on a simple readout by utilizing most of the display area to show a large battery state of charge bar graph. Although it still offers great accuracy, the feature set is more limited compared to the higher end Merlin Expert Pro and Merlin Expert Modular. This makes the Merlin Expert Lite the ideal instrument for less technical end-users and relatively simple battery installations.

The Merlin Expert Lite selectively displays; voltage, charge and discharge current, consumed amp-hours and remaining battery capacity. Using a clear back-lit LCD and an intuitive user interface, all parameters can be recalled with just a press of a button.

- **Critical information provided**  
about the status of your battery bank in a simple readout layout, like a fuel gauge.
- **Two battery inputs**  
all features provided for a single battery bank, voltage only for a 2nd.
- **Multiple display options**  
showing voltage, current, consumed amp-hours, and remaining battery capacity.
- **Programmable alarm relay**  
to run a generator when needed or to turn off devices when the battery voltage exceeds programmable boundaries.
- **Supplied with a 500A shunt**  
as part of the standard kit.
- **CE and E-mark certification**  
for legal use aboard vehicles.



<b>PART #</b>	<b>30-5006</b>
<b>PRODUCT NAME</b>	<b>EXPERT LITE</b>
<b>SUPPLY</b>	
SUPPLY VOLTAGE RANGE	9 .35VDC
SUPPLY CURRENT:	
@VIN= 12VDC	9MA
@VIN= 24VDC	7MA
<b>INPUT</b>	
INPUT VOLTAGE RANGE (AUX)	2 .. 35VDC
INPUT VOLTAGE RANGE (MAIN)	0 .. 35VDC
INPUT CURRENT RANGE	-999 .. +999A
BATTERY CAPACITY RANGE	20.999AH
<b>TEMPERATURE</b>	
OPERATING TEMPERATURE	-20-c .. +50°C
STORING TEMPERATURE	-30°C .. +70°C
<b>READOUT RESOLUTION</b>	
VOLTAGE (0 .. 35V)	± 0.1V
VOLTAGE (36 .. 70V)	N/A
CURRENT ( 0 .. 100A)	± 0 .1A
CURRENT (101 .. 600A)	± 1A
CURRENT (601 .. 999A)	± 1A
AMPHOURS (0 .. 100AH)	± 0 .1AH
AMPHOURS (100 .. 999AH)	± 1AH
POWER ( 0 .. 42KW)	N/A
STATE-OF-CHARGE (0 .. 100%)	± 0 .1%
TIME REMAINING (0 .. 24HRS)	N/A
TIME REMAINING (0 .. 240HRS)	N/A
MAINTENANCE HOURS (0 .. 10000HRS)	N/A
TEMPERATURES (-20°C .. +50°C)	N/A
<b>ACCURACY</b>	
VOLTAGE MEASUREMENT	± 0.5%
CURRENT MEASUREMENT	± 0.8%
<b>GENERAL</b>	
DISPLAY DIMENSIONS (MM)	64(L) X 52(W) X 79(H)
DISPLAY WEIGHT (KG)	0.095
SHUNT DIMENSIONS (MM)	87(L) X 45(W) X 35(H)
SHUNT WEIGHT (KG)	0 .145
PROTECTION CLASS	IP20 (FRONT PANEL ONLY IP65)
STANDARDS	CE MARKED MEETING EMC DIRECTIVE 2004/108/EC AND LVD 2006/95/EC COMPLYING WITH EN60335-1, ROHS 2002/95/EC AND E4-95/54/EC