

▼ Battery Isolation & Converters

Manson® Electronic 12V Battery Isolator



Designed for use in dual battery systems eg. a main battery and an auxiliary battery. The auxiliary battery can be connected to a load, such as a camping fridge, while the main battery is isolated and not subject to any current draw. This allows you to start your vehicle using the main battery if the auxiliary battery is flattened by the load. Automatically connects the auxiliary battery for charging once the main battery reaches the selected cut in voltage and disconnects it from charging when the main battery falls below the selected cut off voltage.

- Features** • Solid state - no moving parts • Low standby current and voltage drop • Suits most lead acid batteries • Over temperature, low/high voltage & over current protection • Single or dual battery use • Manual override

SPECIFICATIONS

| | |
|-----------------------------------|--------------------------|
| Max output current: | 110A |
| Continuous output current: | 100A |
| Voltage drop (main to aux batt.): | 300mV |
| Cut in: | Adjustable 12.9-13.8V DC |
| Cut out: | Adjustable 10.5-13.0V DC |
| Operating temperature: | -40 to +60°C |
| Dimensions (mm) | 222 x 75 x 50 |

| Price Each | RRP | 3+ | 6+ |
|---------------|-----|----|--------------|
| N 2104 | | | 49.00 |

Smart 12V Dual Battery Isolator



This voltage sensitive relay module is designed to combine two batteries when charging and isolates each when not charging. It essentially isolates your auxiliary battery from your starter battery to prevent you inadvertently fully discharging it (and thus leaving your car stranded!). Once the voltage of your starter battery rises above 13.3V the isolator engages to charge both batteries in parallel. When the voltage of the starter battery drops below 12.8V the isolator disengages sending charge solely to the starter battery. Fully encapsulated design seals our water and dust.

- Features** • 'Batteries combined' LED indicator • Glass fibre reinforced nylon enclosure • Encapsulated for water and dust protection • No voltage drop • Surface or panel mount

SPECIFICATIONS

| | |
|----------------------------|---|
| Max output current: | 140A |
| Continuous output current: | 125A |
| Voltage drop: | None |
| Nominal voltage: | 12V DC |
| Combine/open voltage: | 13.7V/12.8V |
| Power consumption: | 10mA standby, 330mA engaged 0mA storage mode |
| Dimensions: | 69 x 69 x 58mm |

| Price Each | RRP | 2+ | 4+ |
|---------------|--------------|--------------|--------------|
| S 2680 | 49.95 | 44.95 | 39.95 |

Dual Battery Isolator Kit



This smart battery isolator kit provides everything you need to wire up a secondary battery in your vehicle. A second battery can be vital for powering appliances at campsites, inverters etc, and isolating the primary battery ensures you always have enough juice left to start your car! Instructions included.

- Includes** • S 2680 12V battery isolator • 6m of terminated red 8AWG cable • 600mm 4AWG black terminated earthing cable • 7 x 8mm stud copper lugs • Pair of T1 DIN gold battery terminals • Heatshrink • Cable ties

| Price Each | RRP | 3+ | 6+ |
|---------------|---------------|---------------|---------------|
| S 2682 | 149.00 | 135.00 | 119.00 |

▼ Power Meters

Manson® Digital Power Meters



These digital power meters are ideal for measuring and monitoring the output of a portable PV solar power system. They simply connect inline between any DC power source and a load. Up to 3 days worth of readings (amp hours, watt hours, voltage & current) can be logged by the internal memory. These can be monitored on a PC via the optional USB interface & software (N 2081). Requires no power.

- Features** • N 2080 fitted with internal shunt for easy connection • N 2084 can be used with a shunt for 100A max current • In-line connection • Logs Amp hours, Watt hours, current, min & max voltage • 3 min logging intervals (1500 measurements max) • Magnetic bracket • Optional USB PC datalogging adaptor & software

| SPECIFICATIONS | N 2080 | N 2084 |
|------------------|---------------------|----------------------|
| Range: | 0-20A cont. (5-60V) | 0-100A cont. (5-60V) |
| Max current: | 30A (30 min max) | - |
| Resolution: | 0.01V, 0.01A | 0.01V, 0.02A |
| Power: | 0-3600W | 0-10000W |
| Resolution: | 0.1W | 0.1W |
| Datalogging: | 75 hrs | 75 hrs |
| Dimensions (mm): | 75x45x23 | 75x45x23 |

| Price Each | RRP | 2+ | 4+ |
|--|--------------|---------------|--------------|
| N 2080 5-60V 20A | 95.00 | 91.00 | 85.00 |
| N 2084 5-60V 100A | 79.95 | 135.00 | 68.00 |
| N 2086 100A shunt for N 2084 | 51.95 | 46.95 | 41.95 |
| N 2081 USB Interface & Software | 99.50 | 92.50 | 86.00 |

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Voltage/Current Flush Mount Panel Meter



Simultaneously measures voltage, current, power, charging capacity and time. The two-line LED display can display two different groups of data. The meter can switch between measurements of different parameters. It is ideal for monitoring output voltage and current, as well as the battery charge and discharge applications. Screw terminal connections on rear.

SPECIFICATIONS

| | |
|---------------------|---|
| Input voltage: | 0-90V (±1%) |
| Current: | 0-20A (±2%) |
| Display: | 4 x 8 segment LED (3 for value and 1 for unit) |
| Display resolution: | 0.01 (all units) |
| Units: | Volts, Amps, Watts, Amp Hours, Hours |
| Measuring rate: | 5 times/s |
| Dimensions: | 79W x 43H x 25Dmm |
| Panel cutout: | 76.5W x 39.2Hmm |

| Price Each | RRP | 4+ | 6+ |
|---------------|--------------|--------------|--------------|
| Q 0590 | 49.95 | 44.95 | 39.95 |

Voltage & Current Wallplate With Shunt



A wallplate designed for installation in caravans, RVs and off-grid remote power installs. It displays the voltage and current of the connected battery. Ideal for monitoring the output of a portable PV solar power system. Included with the wallplate is a shunt box which connects directly between the battery and the load. The internal shunt is rated to 100A current and maximum voltage is 16V (suits 12V battery systems only). Shunt box size: 125W x 62H x 82Dmm.

| Price Each | RRP | 2+ | 4+ |
|--------------------------|---------------|---------------|---------------|
| L 1045 0-16V 100A | 195.00 | 185.00 | 175.00 |

GSL® Dual Battery Monitor



Don't be caught under or overcharging your dual battery setup with this handy LCD monitor. It provides accurate ±50mV readings of main and auxiliary battery voltages, with dual bargraph displays. Suits both single and dual battery systems. 5-17V input. 1.5m 4 core cable. Size: 59 x 44 x 21mm.

| Price Each | RRP | 2+ | 2+ |
|---------------|---------------|---------------|---------------|
| N 2098 | 115.00 | 105.00 | 105.00 |