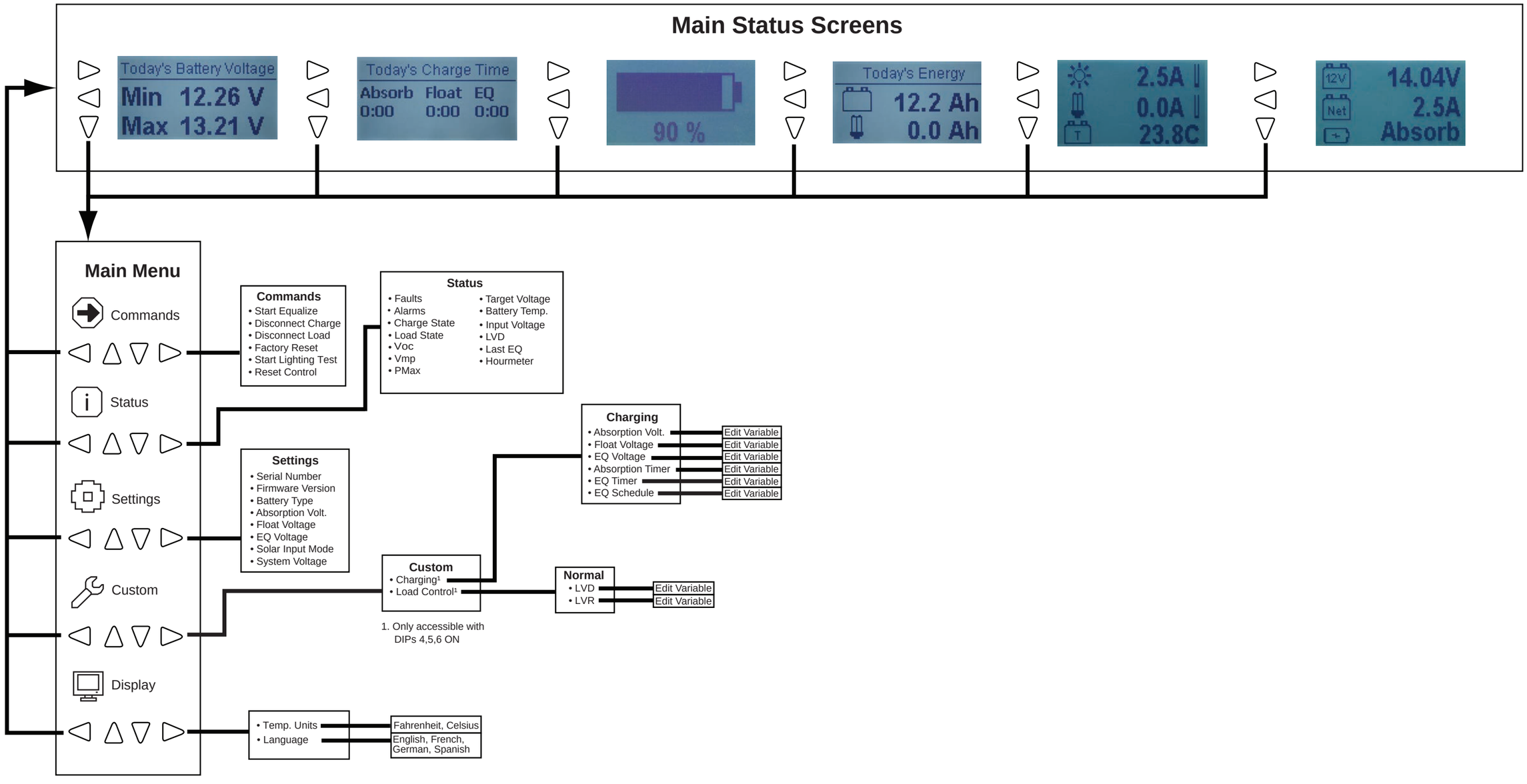
EcoBoost MPPT Meter Map

MORNINGSTAR
World's Leading Solar Controllers & Inverters



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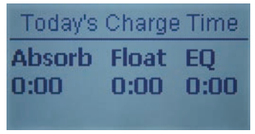
Main Status Screens / Icons

Min: Minimum battery voltage recorded today

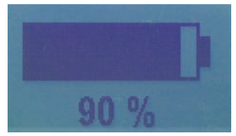
Max: Maximum battery voltage recorded today



Absorb: Cumulative time spent in the Absorption stage during today's charge cycle

Float: Cumulative time spent in the float stage during today's charge cycle

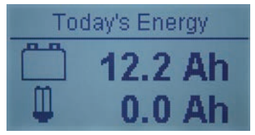
EQ: Cumulative time spent in the Equalization stage during today's charge cycle



State-of-Charge Icon: Real-time battery state-of-charge indication.

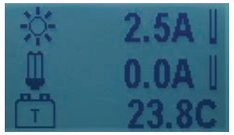
Quality of estimate varies depending on battery health.

Shown in 10% increments.



Battery Icon: Cumulative Amp-Hours delivered to the battery during today's charge cycle

Load Icon: Cumulative Amp-Hours delivered to the Load today

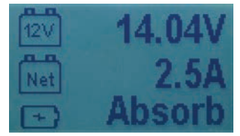


Sun Icon: Real-time Battery/Load Current

Moon Icon: Night state (no array voltage)

Load Icon: Real-time load current draw (Will display 'LVD' for Low Voltage Disconnect and 'LVDW' for Low Voltage Disconnect imminent Warning)

T Battery Icon: Real-time Battery temperature as measured by the RemoteTemperature Sensor (if no RTS present, displays local temperature)



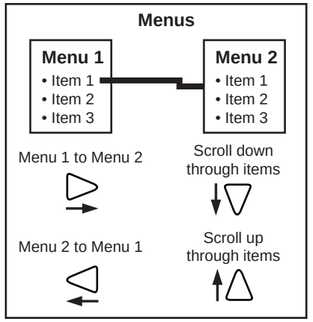
Battery Icon: Real-time battery voltage

Net Icon: Real-time Net current into or out of the battery

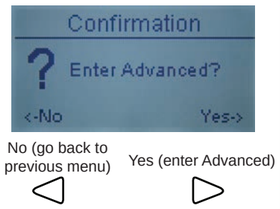
Charge Icon: Real-time Charging Stage

How to Navigate

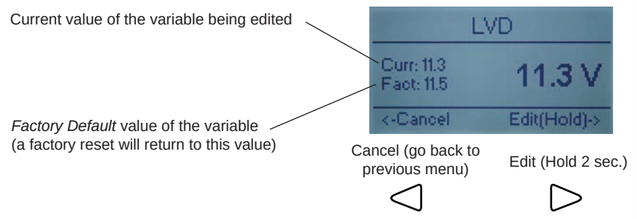
Menus



Confirmation Screens



Edit Variable Screens



Faults and Alarms

Array Faults

- *Output Overcurrent*
- *FET Short*: Possible power MOSFET damage
- *Software*: Software fault
- *Batt HVD*: Battery Voltage exceeded High Voltage Disconnect threshold
- *Array HVD*: Array Voltage exceeded
- *Settings*: Custom settings change
- *Batt TS Short*: Remote Temperature Sensor shorted
- *Batt TS Discon*: Remote Temperature Sensor disconnected
- *THS Failed*: Heatsink Temperature Sensor failure
- *Batt LVD*: Battery Voltage too low for charging

Load Faults

- *Ext Short*: Wiring error
- *Overcurrent*: Load draw exceeded current rating
- *FET Short*: Possible power MOSFET damage
- *Software*: Software fault
- *HVD*: Battery Voltage exceeded Load High Voltage Disconnect threshold
- *HS Overtemp*: Heatsink temperature too hot
- *DIP switch*: DIP switch settings changed
- *Settings*: Custom settings change

Alarms

- *Batt TS Open*: Remote Temperature Sensor open
- *Batt TS Short*: Remote Temperature Sensor shorted
- *Batt TS Discon*: Remote Temperature Sensor disconnected
- *THS Open*: Heatsink temperature failure
- *THS Short*: Heatsink temperature failure
- *THS Hot*: Heatsink temperature too hot
- *TIND Open*: Inductor temperature sensor open
- *TIND Short*: Inductor temperature sensor shorted
- *TIND Hot*: Inductor temperature too hot
- *Current Limit*: Battery charge current limit
- *Current Offset*: Current measurement error
- *Uncalibrated*: Voltage and/or Current measurement uncalibrated
- *TB5v*: 5V supply out of range
- *FP10*: Floating 10V supply out of range
- *Miswire*: External wiring error
- *FET Open*: Possible power MOSFET damage
- *Ia offset*: Current measurement error
- *Il offset*: Current measurement error
- *P3*: 3V supply out of range
- *P12*: 12V supply out of range
- *High VA*: Array Voltage too high
- *Reset*: Controller was reset
- *LVD*: Low Voltage Disconnect
- *Log Timeout*: Log entry write timeout