

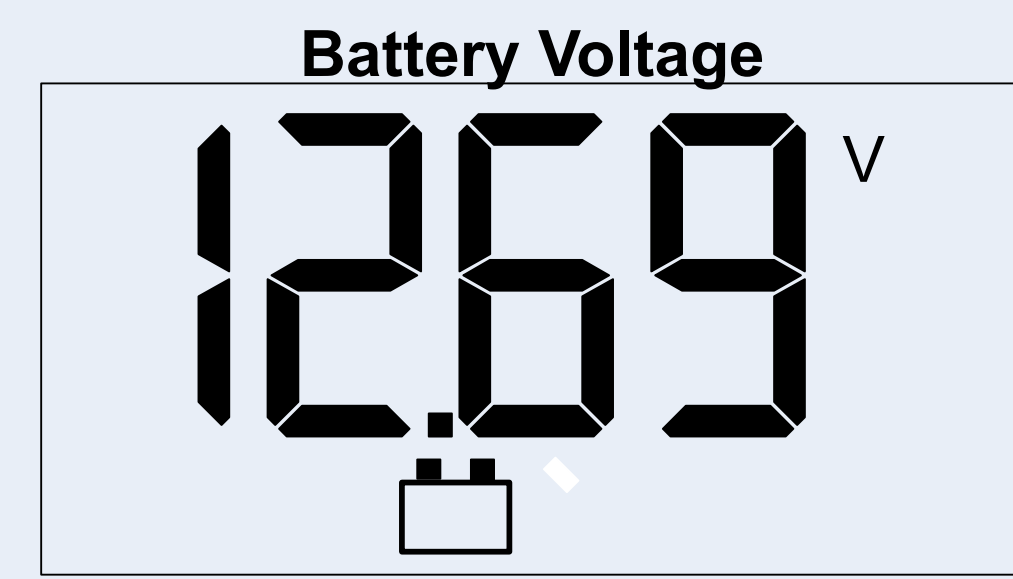
ProStar MPPT Meter Map

Main Screens

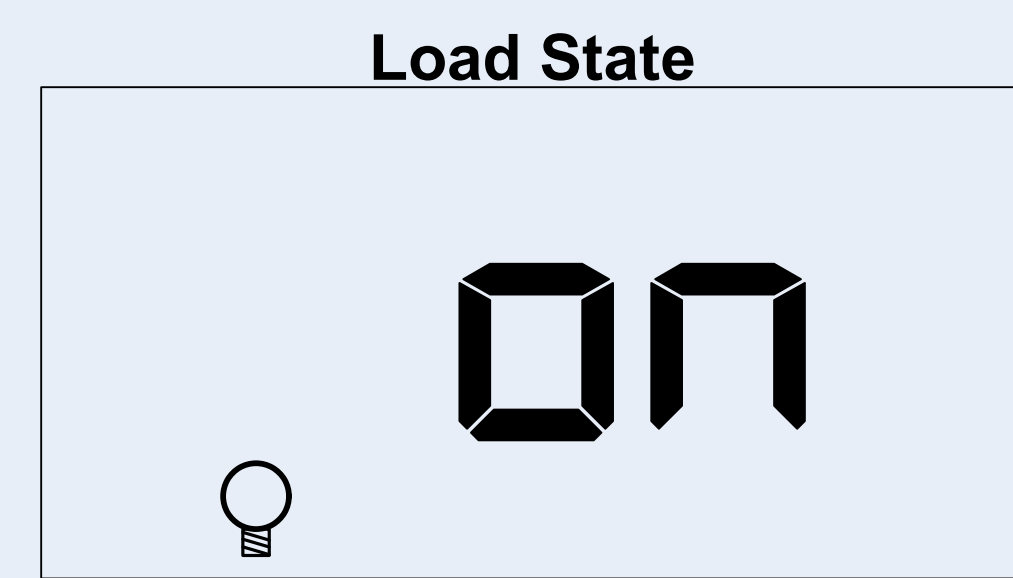
Solar Input Displays



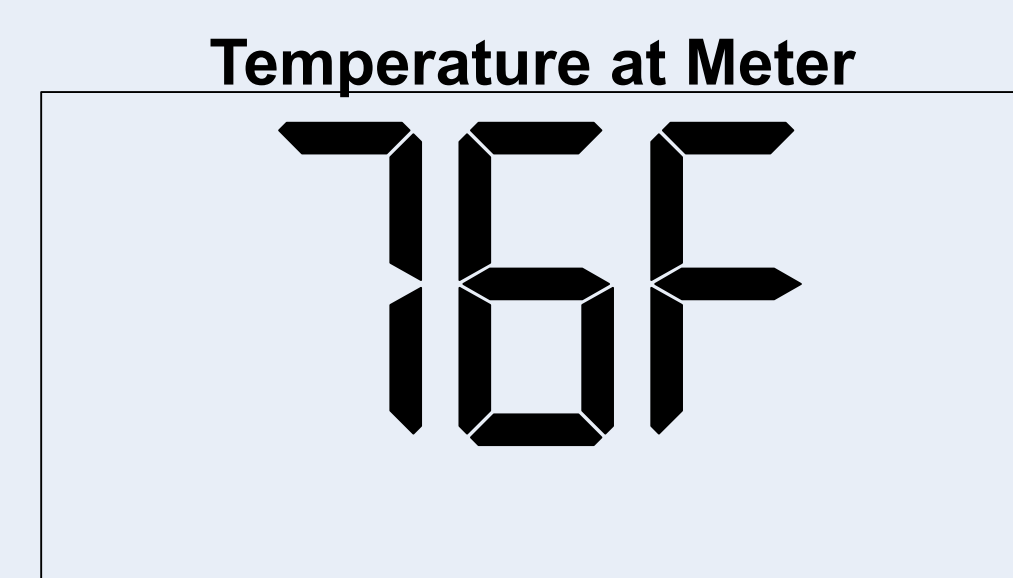
Battery Displays



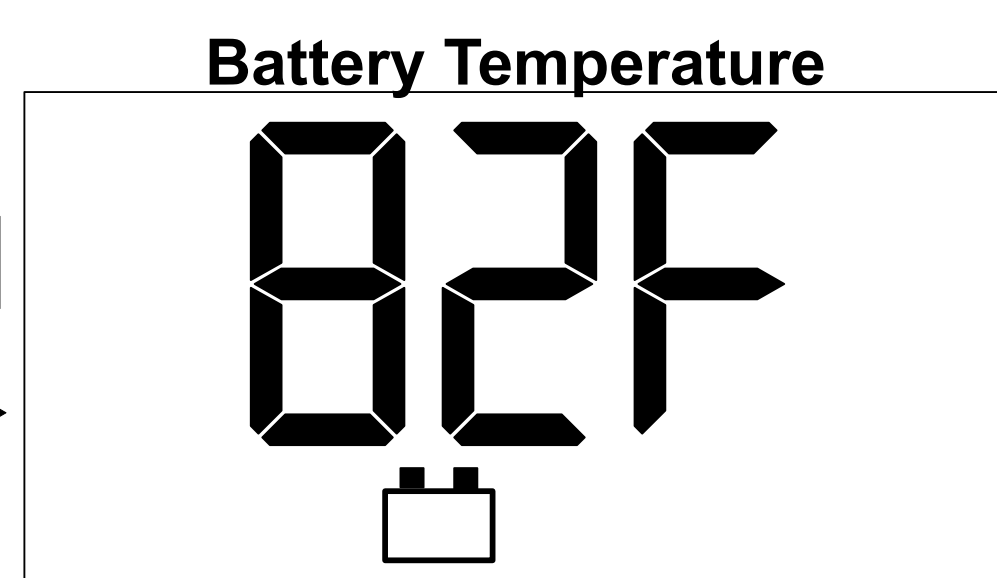
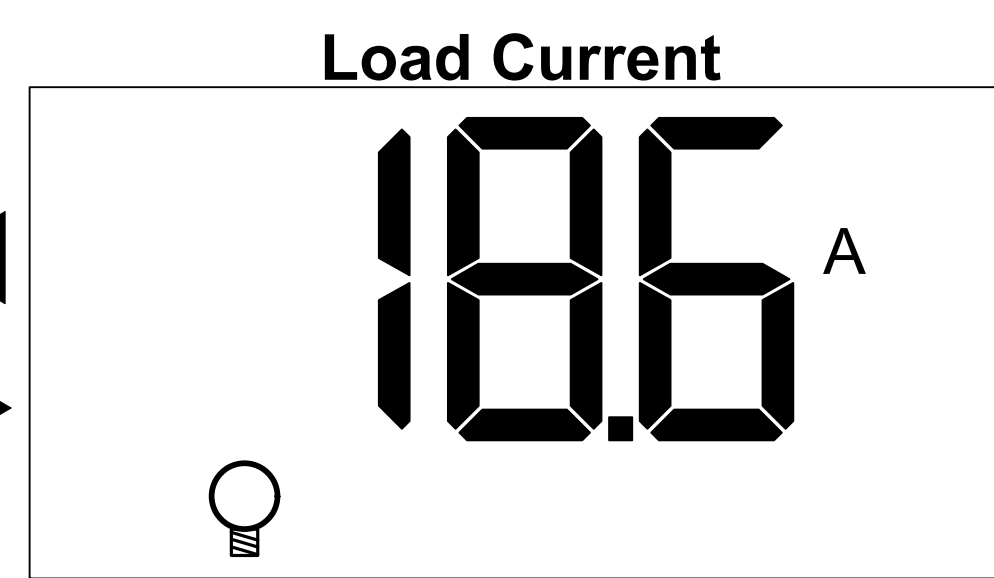
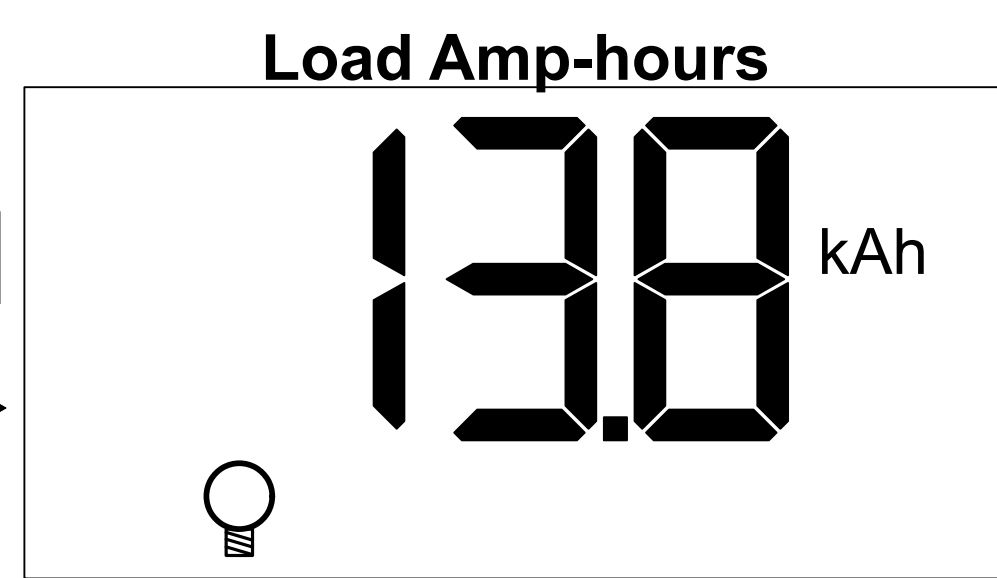
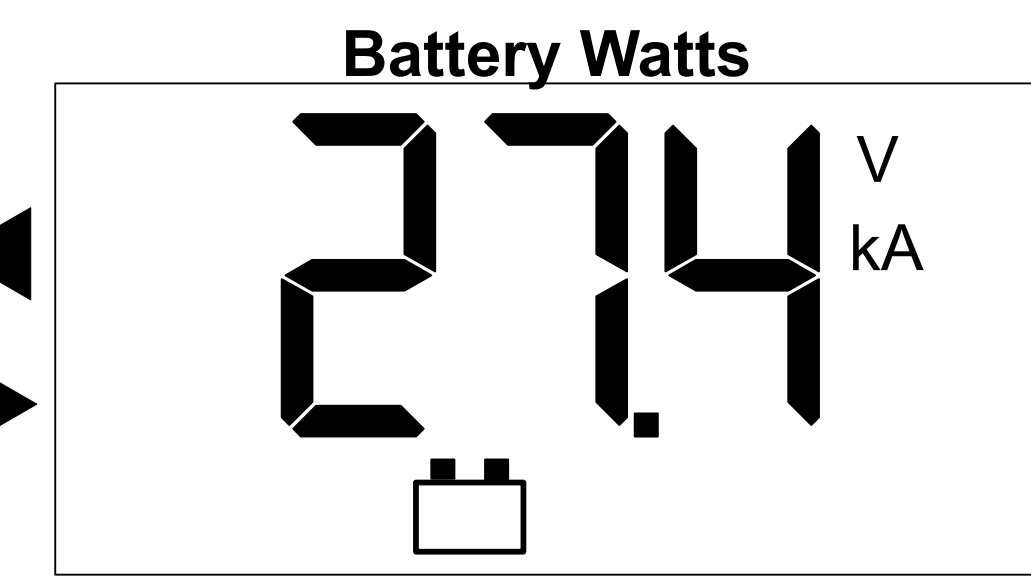
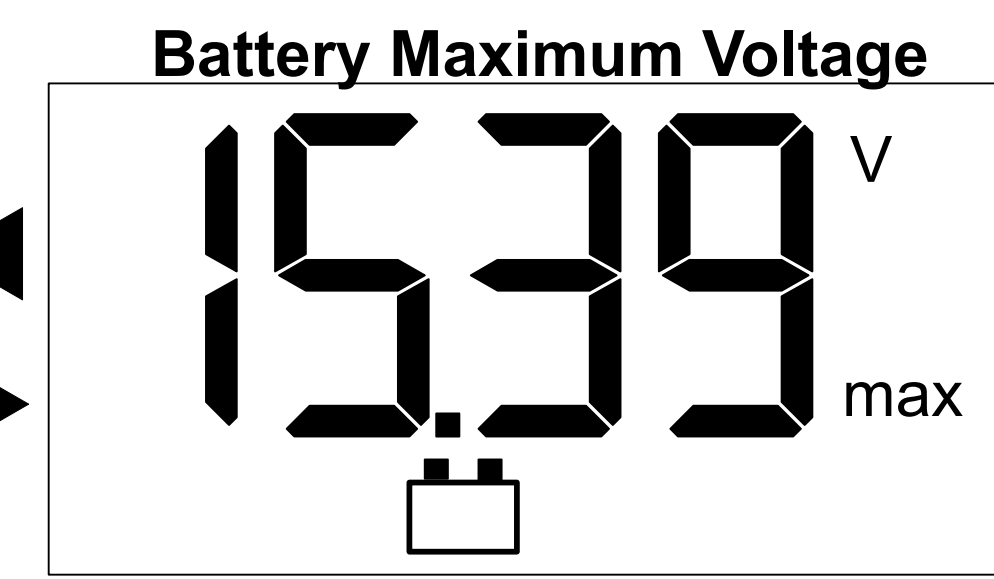
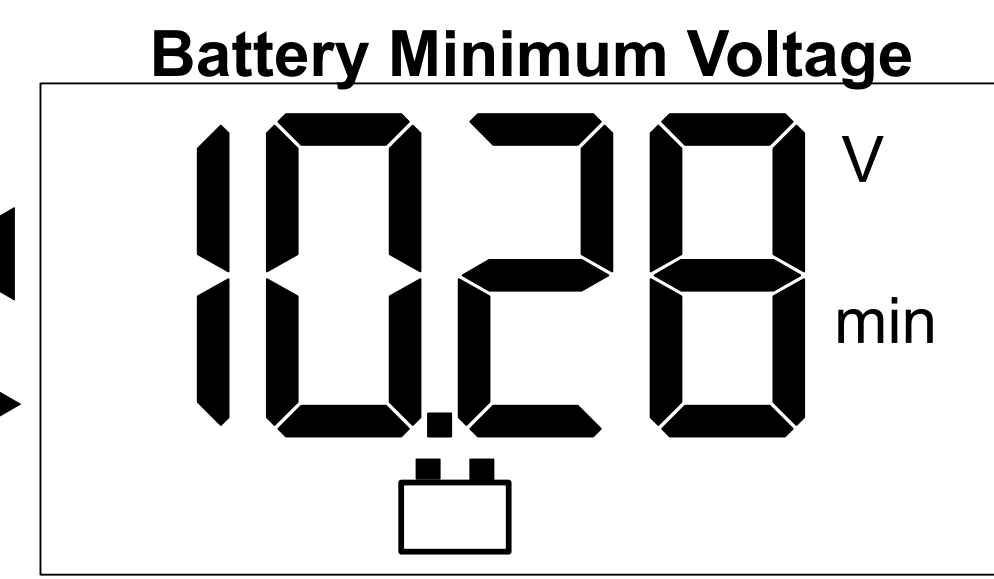
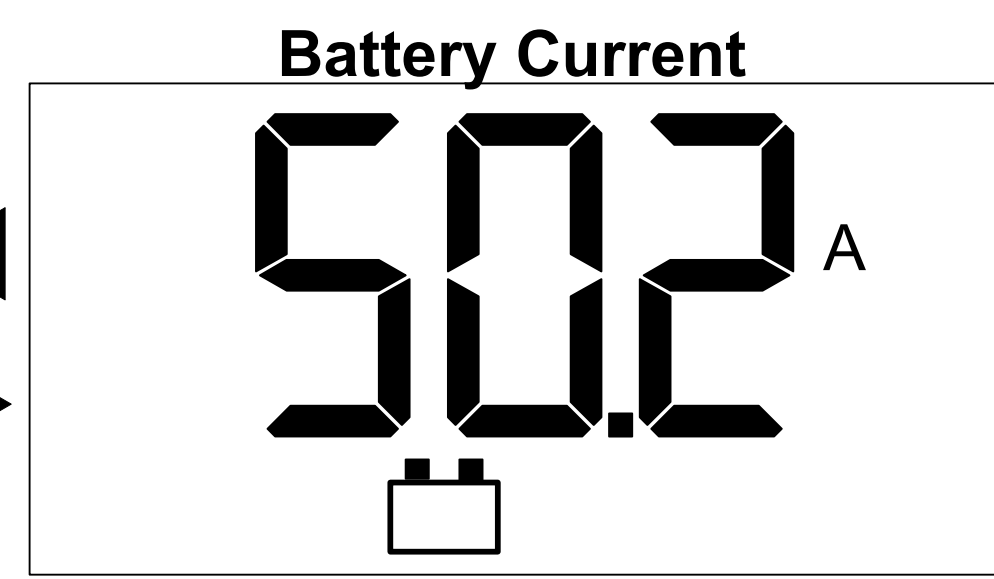
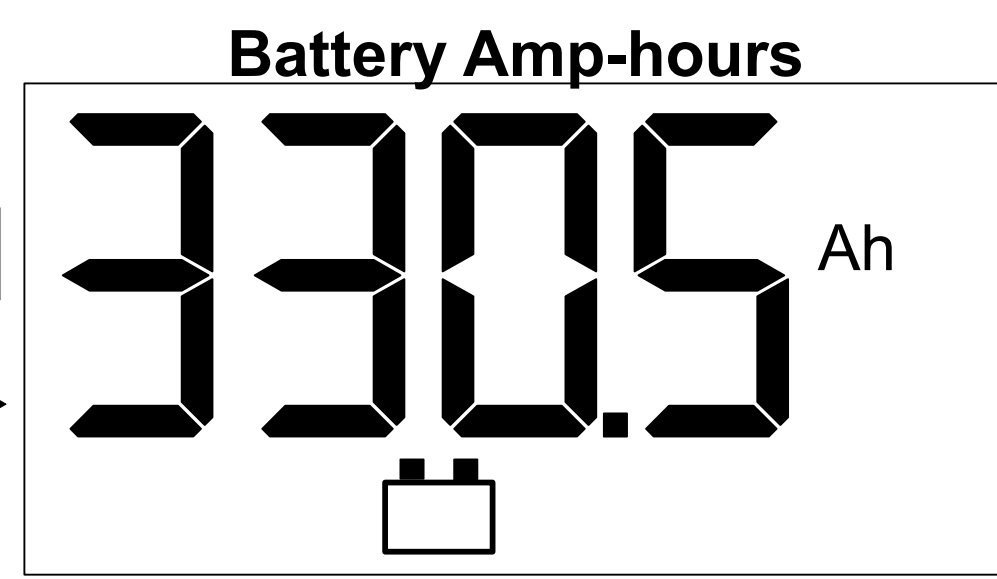
Load Displays



Temperature Displays



Meter Menu



Return to Top

Errors & Alarms

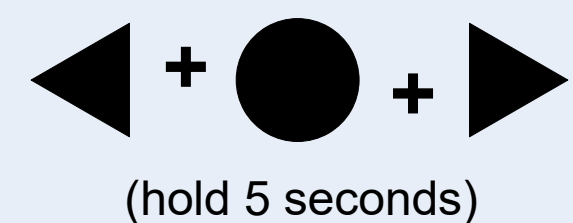
Error Codes List

- E:-- = No errors
- E:01 = Over-current – Phase U
- E:02 = Over-current – Phase V
- E:03 = Over-current – Phase W
- E:04 = MOSFET(s) damaged
- E:05 = Software error
- E:06 = Battery HVD
- E:07 = Array HVD
- E:08 = Custom Settings Edit (power reset required)
- E:09 = RTS Shorted
- E:10 = RTS Disconnected
- E:11 = Damaged Ambient Temp. Sensor
- E:12 = Battery LVD (Vbatt too low for charging)
- E:13 = Slave Control Timeout
- E:17 = External Short Circuit
- E:18 = Load Over-current
- E:19 = Load MOSFETs damaged
- E:20 = Software fault
- E:21 = Load HVD
- E:22 = High Temp. Disconnect
- E:23 = DIP Switch Change (power reset required)
- E:24 = Custom Settings Edit (power reset required)

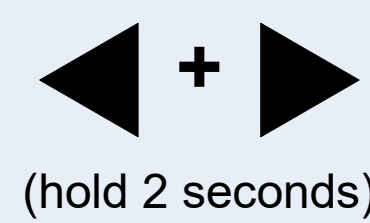
Alarm Codes List

- A:-- = No alarms
- A:01 = RTS Disconnected (always set if no RTS connected)
- A:02 = RTS Shorted
- A:03 = RTS Disconnected
- A:04 = Heatsink Temp. Sensor Open
- A:05 = Heatsink Temp. Sensor Shorted
- A:06 = Heatsink High Temperature Warning
- A:07 = Inductor Temp. Sensor Open
- A:08 = Inductor Temp. Sensor Shorted
- A:09 = Inductor Temp. too hot
- A:10 = MPPT Current Limit
- A:11 = Current Offset (measurement error)
- A:12 = Vb Sense Out of Range
- A:13 = Vb Sense Disconnected
- A:14 = Uncalibrated
- A:15 = 5V supply out of range
- A:16 = 10V supply out of range
- A:17 = Miswire
- A:18 = FET Open
- A:19 = Ia offset (measurement error)
- A:20 = IL offset (measurement error)
- A:21 = 3V supply out of range
- A:22 = 12V supply out of range
- A:23 = Array Voltage too high
- A:24 = Reset: controller was reset
- A:25 = Low Voltage Disconnect
- A:26 = Log write timeout

Special Functions



= **Meter Settings**
(see manual)



= **Reset to Zero:**
Battery min/max Voltage
Battery Watts
Battery/Load Amp-hours

Self Diagnostics

(Hold 5 Seconds)

00:00 V %
kAh
min
max

TEST

Controller Firmware Version

r 101

TEST

Ambient Temperature

32C

TEST

Heatsink Temperature

H48C

TEST

Error Code(s) List*

E:--

TEST

Alarm Code(s) List*

A:--

TEST

Remote Temp. Sensor Value
(next screen)

r t 5

TEST

RTS Temperature **

28C

TEST

Absorption Voltage Setting

14.10 V

TEST

Low Voltage Disconnect Setting

1.50 V
min

TEST

End Self Diagnostics

End

TEST

End of Test – Return to Menu

* See Opposite Page for Error & Alarms code list

** If a RTS is not connected, temperature will be reported as 25 C

Datalogging

Hold ● +▶ 5 seconds to exit datalogging

(Hold 5 Seconds)

Log

Log

Log

Today's Data

0

Yesterday's Data

-1

30 Days Ago

-30

Maximum Battery Voltage

15.22 V
max

Maximum Battery Voltage

15.22 V
max

Maximum Battery Voltage

15.22 V
max

Minimum Battery Voltage

10.38 V
min

Minimum Battery Voltage

10.38 V
min

Minimum Battery Voltage

10.38 V
min

Solar Amp-hours

4876 Ah

Solar Amp-hours

4876 Ah

Solar Amp-hours

4876 Ah

Load Amp-hours

8935 Ah

Load Amp-hours

8935 Ah

Load Amp-hours

8935 Ah

Maximum Solar Voltage*

43.09 V
max

Maximum Solar Voltage*

39.87 V
max

Maximum Solar Voltage*

40.66 V
max

Daily Error List

E:--

Daily Error List

E:--

Daily Error List

E:--

Daily Alarm List

A:--

Daily Alarm List

A:--

Daily Alarm List

A:--

Minutes in Float

193 min

Minutes in Float

206 min

Minutes in Float

48 min