

Solis Energy Storage Inverter Menu Layout

1. Information

a. General Info

- i. Inverter SN: xxxxxxxxxxxx
- ii. Device Status: Generating
- iii. Battery Status: Normal
- iv. Backup Status: Normal
- v. Grid Status: Normal
- vi. Wakeup Status: Done
- vii. DRM NO: 08
- viii. Model No: C6
- ix. Software Ver: 060007

b. System Info

- i. Solar Power:
- ii. Solar Voltage1: (Vdc)
- iii. Solar Voltage2: (Vdc)
- iv. Solar Current1: (A)
- v. Solar Current2: (A)
- vi. Grid Power: (kW)
- vii. Grid Voltage: (Vac)
- viii. Grid Frequency: (Hz)
- ix. Battery Voltage: (Vdc)
- x. Backup Voltage: (Vac)
- xi. Charge Power: (kW)

c. Energy Records

- i. Total Energy: (kWh)
- ii. Today: (kWh)
- iii. Yesterday (kWh)
- iv. This Month: (kWh)
- v. Last Month: (kWh)
- vi. This Year: (kWh)
- vii. Last year: (kWh)

d. BMS Info

- i. Battery Voltage: (V)
- ii. Battery Current: (A)
- iii. Charge Limit: (A)
- iv. Discharge Limit: (A)
- v. SOC Value: (%)
- vi. SOH Value: (%)
- vii. BMS Status: Normal

e. Meter Info

- i. External
 1. Meter VoltageL1: (V)
 2. Meter CurrentL1: (A)
 3. Meter VoltageL2: (V)
 4. Meter CurrentL2: (A)

5. Meter Power: (W)
 6. Meter Energy: (kWh)
 7. Input Energy: (kWh)
 8. Output Energy: (kWh)
- ii. Internal
1. Meter Voltage: (V)
 2. Meter Current: (A)
 3. Meter Power: (W)
 4. Meter Energy: (kWh)
 5. Input Energy: (kWh)
 6. Output Energy: (kW)

2. Settings

a. Set Time/Date

- i. YY-MM-DD and HH:MM
1. Save and Send
 2. Cancel and Exit

b. Set Address

- i. Slave Address: 01-99
1. Save and Send
 2. Cancel and Exit

c. Set Language

- i. English/Chinese
1. Save and Send
 2. Cancel and Exit

3. Advanced Information

a. Alarm Message

- i. Alarm Messages by date/time

b. Warning Message

- i. Warning Messages by date/time

c. Running Status

- i. General Status
1. DC Bus Voltage: (V)
 2. Power Factor: (+1 to -1)
 3. Power Limit (%)
 4. Inverter Temperature: (C)
 5. Grid Standard
- ii. Advanced Status
1. Grid Filer NO:
 2. Ground Voltage: (V)
 3. Relay-Fault Func: (Run/Stop)
 4. ILeak-Fault Func: (Run/Stop)
 5. AFCI-Fault Func: (Run/Stop)
 6. PV-G-Fault Func: (Run/Stop)
 7. OV-F-Load Func: (Run/Stop)
 8. GRID-INTF.02 Func: (Run/Stop)

d. Communication Data

- i. Series of numbers and letters that is constantly changing

e. Yield Profile

- i. Monthly Energy
 - 1. Shown in bar graph form – can be selected by month
- ii. Yearly Energy
 - 1. Shown in bar graph form – can be selected by year
- iii. Total Energy
 - 1. Shown in bar graph form

4. Advanced Settings (input 0010 for the password)

a. Select Standard

- i. Choose from one of the many standards available
- ii. For US it will most likely be UL-240V-A
- iii. For California it will be R21P3-24A
- iv. Upon selecting a standard, the screen will then display parameters

b. Switches

- i. ON/OFF/Stop
 - 1. Stop is similar to standby mode – disables the inverter without turning off AC and DC power

c. Battery Control

- i. Battery Select
 - 1. LG Chem RESU10H
 - a. Lg_HV then enter
 - 2. BYD B-Box Series
 - a. B-Box HV then enter
 - 3. User-Define
 - a. Allows a custom setup to be configured
 - 4. Pylon
 - a. Not available in the US
 - 5. Overdischg SOC: (%) will appear after selecting a battery
 - a. This percentage determines when the battery will cease discharging energy
 - 6. ForceCharge SOC: (%) will appear after selecting Overdischg SOC
 - a. This percentage is the point at which the battery will be forced to start accepting a charge
 - 7. Droop Curve Control (LG Chem RESU10H)
 - a. Status Cmd:
 - b. Deadband Lower Limit: (V)
 - c. Deadband Upper Limit: (V)
 - d. Charge Slope
 - e. Max Charge Voltage: (V)
 - f. Max Discharge Voltage: (V)
 - g. Charge Power Limit: (W)
 - h. Discharge Power Limit: (W)
 - i. Heartbeat Timeout: (Seconds)
 - j. LG Address
 - k. Inverter Type
 - l. BaudRate
 - m. Black Out Start

- ii. Battery Wakeup
 - 1. Select and then “Done!” will be displayed
 - 2. This tells the battery to turn on
 - 3. Use this function when the battery stopped working due to an alarm message

d. Backup Control

- i. Backup ON/OFF
 - 1. Backup ON
 - 2. Backup OFF
- ii. Backup Settings
 - 1. Backup Voltage: (V)
 - a. Should be set to 240V if in the US
 - 2. Backup Frequency (Hz)
 - a. Should be set to 60Hz
 - 3. Voltage Droop (disable/enable)

e. Storage Energy Set

- i. Meter Select
 - 1. 1Ph Meter (single phase meter)
 - a. Most of the time, this will be the correct selection
 - 2. 3Ph Meter (three phase meter)
- ii. Storage Mode Select
 - 1. Time Charging
 - a. Optimal Income: (Run/Stop)
 - b. Charge Limit: (A)
 - c. Discharge Limit: (A)
 - d. Charge Time (HH-MM – HH-MM)
 - i. Total Time (HH-MM)
 - ii. The time window for when the battery will accept a charge
 - e. Discharge Time (HH-MM – HH-MM)
 - i. Total Time (HH-MM)
 - ii. The time window for when the battery will discharge energy
 - 2. Off Grid Mode (energizes backup terminals)
 - a. ON
 - b. OFF
 - c. Note: If a backup loads panel is being used then this mode must be turned on
 - d. This mode should be used in the even of a power outage
 - 3. Note: Self Consumption is the default when neither Time Charging nor Off Grid modes are selected

f. STD. Mode Settings

- i. Working Mode Set
 - 1. Null, Volt-watt, Volt-var, Fixed-PF, Reac-power, P-factor, VgWatt-UL
- ii. Ramp Rate Limit
 - 1. Power Rate: (%)
 - 2. RateP_Sts-US: (Enable/Disable)
 - 3. Ramp_up-US: (%)
 - 4. Reconnect-US: (%)
- iii. Freq. Derate Set
 - 1. Null/01/02/03/04

- 2. Null is used for no mode
- iv. 10mins Voltage Set
 - 1. 10mins Voltage: (V)
 - 2. Used in Europe and not the US
- v. Voltage PCC Set
 - 1. VRefPCC: (V)
 - 2. VRefOfs: (+V)
 - 3. Used in Europe and not the US
- vi. Initial Settings (default settings reversion)
 - 1. Work Mode Default
 - 2. Ramp Rate Default
 - 3. Fre Derate Default
 - 4. 10mVoltage Default
 - 5. DRM ON/OFF
 - a. ON/OFF

g. Software Update

- i. HMI Update
 - 1. HMI stands for Human-Machine-Interface and refers to the inverter screen
 - 2. Current Version
- ii. DSP Update
 - 1. DSP means Digital-Signal-Processor
 - 2. Current Version

h. Export Power Set

- i. Backflow Power
 - 1. Backflow Power: (W)
 - 2. This is the amount of power that the inverter will allow to be exported to the grid
 - 3. Change this value with UP and DOWN buttons
- ii. ON/OFF
- iii. FailSafe ON/OFF

i. Calibrate

- i. Total Energy
 - 1. Total Energy: (kWh) manually set
- ii. Power Parameter
 - 1. Power Para: (1.000)

j. Reset Password

- i. Please Input Current Password
- ii. Create New Password

k. Restart HMI

- i. HMI stands for Human-Machine-Interface and refers to the inverter screen
- ii. Pressing Enter resets the screen

5. Advanced Settings Special Menu (input 2017 for the password)

a. Power Control

- i. Output Power Control
 - 1. Output Power Control: (%)
- ii. Reactive Power Control
 - 1. (+1 to -1)

- iii. Output Power Control with Restore
 - 1. Output Power Control: (%)
- iv. Reactive Power Control with Restore
 - 1. (+1 to -1)

b. Clear Energy

- i. Are you sure (ESC or ENT)

c. Restore Settings

- i. Are you sure (ESC or ENT)

d. Special Settings

- i. Special_1 Set

- 1. Grid Filter NO:
- 2. Relay-Fault Func: (Run/Stop)
- 3. ILeak-Fault Func: (Run/Stop)
- 4. PV-G-Fault Func: (Run/Stop)
- 5. GRID-INTF.02 Func: (Run/Stop)
- 6. MPPT Parallel Mode: (Run/Stop)
- 7. Constant Voltage: (Run/Stop)
- 8. Voltage Select: (V)
- 9. IgADCheckPRO: (Run/Stop)
- 10. ARC Level
- 11. ARC Fault Pro (protection): (OFF/ON)
- 12. IgFollow Sts: (Run/Stop)

- ii. LVRT Control

- 1. LVRT_CQC1: (Enable/Disable)
- 2. LVRT_CQC2: Capacitive
- 3. LVRT_BRA: (Enable/Disable)
 - a. For Brazil only
- 4. VRT_US: (Enable/Disable)
- 5. FRT_US: (Enable/Disable)
- 6. OV1FRT_US: (Hz)
- 7. OV2FRT_US: (Hz)
- 8. UN1FRT_US: (Hz)
- 9. UN2FRT_US: (Hz)

- iii. IgZero Set

- 1. Igrid-A-Zero: (+00)
- 2. Igrid-B-Zero: (+00)
- 3. Igrid-C-Zero: (+00)
- 4. VFB-Adj-Scale: 80

- iv. VgCompensation

- 1. Vgrid-A-Zero: (+/- 00)
- 2. Vgrid-B-Zero: (+/- 00)
- 3. Vgrid-C-Zero: (+/- 00)

e. COM BaudRate

- i. Baud Rate: (0000) manual set