

LiFe and Eco Series battery settings for Victron Products

Settings listed are only applicable to battery charge and discharge. All other settings are the responsibility of the Integrator.

It is the responsibility of the integrator to have a full understanding of the Victron product prior to programming and it is preferred that they have attended the manufacturers training or integration courses should they be available

SoC Control should be used to maintain your warranty obligations. Either a BMV or Lynx shunt should be used.

Note:

If a Victron MPPT Solar Charge controller is used with a MultiPlus or Quattro, there can be some conflicting of charging due to cable impedances. You may need to set the MPPT 0.3V higher than Quattro or MultiPlus charge target settings or ensure your cable impedances are the same.

As part of our continued improvement process, settings are subject to change without notice and were correct at time of publishing.

General Overview of setting for Victron

| | LiFe2433P | LiFe4833P | ECO4840P |
|--------------------------|--|----------------------------------|------------------------------------|
| Battery Curve | Fixed | | |
| Capacity | Total Ah capacity of PPE battery bank installed | | |
| Absorb Voltage | 28V | 56V | 56V |
| Absorb Time | 4 hours | | |
| Float Voltage | 27.6V | 55.2V | 55.2V |
| Discharge Voltage "LBCO" | 24V | 48V | 48V |
| Re-Charge | 26V | 52V | 52V |
| Max Charge | 0.5C (C2) of total battery bank Ah | | |
| Max Discharge Current | 0.5C (C2) of total battery bank Ah | 1C (C1) of total battery bank Ah | 0.5C (C2) of total battery bank Ah |
| Peukert Expo | 1.02 | | |
| Charge Efficiency | 96% | | |
| SoC When Bulk Finished | 95% | | |
| SOC Low Shut Down | 20% | | |
| SOC Low Restart | 30% | | |
| Note | Information Subject to change at any time without notice | | |

Victron BMV

| Quick Start | LiFe2433P | LiFe4833P | ECO4840P |
|-----------------------------|---|-----------|----------|
| Battery Capacity | Total Ah capacity of PPE battery bank installed | | |
| Charged Voltage | 27.8V | | 55.8V |
| Tail Current | 4% | | |
| Charge Detection Time | 1 minute | | |
| Peukert Exponent | 1.02 | | |
| Charge Efficiency | 96% | | |
| Current Threshold | 0.1A | | |
| Time to go Averaging Period | 3 minutes | | |
| Low SOC Alarm | 10% | | |
| Clear Low SOC Alarm | 30% | | |
| Low Voltage Alarm | 24.5V | | 48.5V |
| Clear Low Voltage Alarm | 25V | | 49V |
| High Voltage Alarm | 30V | | 60V |
| Clear High Voltage Alarm | 28.8V | | 57.7V |
| Note | Information Subject to change at anytime without notice | | |

Phoenix VE.Direct Inverters

| Victron Connect | LiFe2433P | LiFe4833P | ECO4840P |
|-----------------------------|--|-----------|----------|
| Dynamic Cut-off | OFF | | |
| Low Battery Shutdown | 24V | | 48V |
| Low Battery Restart & Alarm | 26V | | 52V |
| Charge Detect | 26V | | 52 |
| Enable Dynamic Cut-off | ON | | |
| | Dynamic Low Voltage Cutoff | | |
| Battery Type | Custom | | |
| Battery Capacity | Total Ah capacity of PPE battery bank installed | | |
| Voltage Discharge 0A | 24V | | 48V |
| Voltage Discharge 8A | 24V | | 48V |
| Voltage Discharge 23A | 24V | | 48V |
| Note | Information Subject to change at any time without notice | | |

MultiPlus and Quattro Inverter Chargers

| MultiPlus and Quattro Inverter Chargers | | | |
|---|--|-----------|-----------|
| VE Configure | LiFe2433P | LiFe4833P | LiFe4840P |
| | General Tab | | |
| Enable Battery Monitor | YES | | |
| SoC When Bulk Finished | 95% | | |
| Total Battery Capacity | Total Ah capacity of PPE battery bank installed | | |
| Charge Efficiency | 96% | | |
| | Inverter Tab | | |
| DC Input Low Shut-Down | 24V | 48V | |
| DC Input Low Restart | 26V | 52V | |
| DC Input Low Pre-Alarm | 25V | 49V | |
| Shut-down on SOC | YES | | |
| SOC Low Shut Down | 20% | | |
| SOC Low Restart | 30% | | |
| | Charger Tab | | |
| Battery Type | Lithium | | |
| Lithium > Yes | Lithium Iron Phosphate | | |
| Absorb voltage | 28V | 56V | |
| Float voltage | 27.6V | 55.2V | |
| Charge Current | 0.5C (C2) of total battery bank Ah | | |
| Repeated Absorb Time | 4hr | | |
| Repeated Absorb Interval | 7 Days | | |
| Absorb Time | 4hr | | |
| Note | Information Subject to change at any time without notice | | |

MPPT Solar Charge Controllers

| MPPT Solar Charge Controllers | | | |
|-------------------------------|------------------------------------|-----------|----------|
| Victron Connect | LiFe2433P | LiFe4833P | ECO4840P |
| Battery Voltage | 24V | 48V | |
| Max Charge Current (C/2) | 0.5C (C2) of total battery bank Ah | | |
| Charger Enabled | ON | | |
| Default charge settings | OFF | | |
| Absorb Voltage | 28V | 56V | |
| Maximum Absorb Time | 6hrs | | |
| Float Voltage | 27.6V | 55.2V | |
| Equalisation Voltage | 27.6V | 55.2V | |
| Auto Equalisation | Disabled | | |
| Temperature Compensation | OFF | | |