

Inverter Setting Guide

for SIMPO5000 (No Communication)



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Foreword:

1. The settings provided pertain exclusively to the charging and discharging of the battery. The integrator is accountable for managing all remaining settings.
2. The integrator should possess a comprehensive understanding of the linked PCE before initiating programming. Ideally, attendance at the manufacturer's training or integration course, if available, is strongly recommended.
3. ZYC SIMPO 5000 allows operation in none-communication mode. This guide is for configuring certain brands of inverters when not communicating with the BMS. Please read this guide carefully before use.
4. If your inverter is listed in the recommended minimum battery modules table of ZYC SIMPO 5000, indicating support for communication with the SIMPO 5000 BMS, we strongly recommend utilizing the communication mode. This ensures a better and more stable operating system for you.
5. It is crucial for installers to consistently conduct thorough system designs. ZYC does not assume responsibility for system designs that result in underperformance.
6. Due to our ongoing process of improvement, settings may be altered without prior notice and are accurate at the time of their release/publishing.

1. Victron inverters / chargers setting

1.1 Recommended Minimum Battery Modules

| Inverter / Charger | Single phase | Three phase |
|-------------------------------------|--------------|-------------|
| Multiplus 48/500/6 | ≥1 | ≥1 |
| Multiplus 48/800/9 | ≥1 | ≥1 |
| Multiplus 48/1200/13 | ≥1 | ≥1 |
| Multiplus 48/1600/20 | ≥1 | ≥2 |
| Multiplus 48/2000/25 | ≥1 | ≥2 |
| Multiplus 48/2000/25-50 120V | ≥1 | ≥2 |
| Multiplus 48/3000/35 | ≥1 | ≥3 |
| Multiplus 48/5000/70 | ≥2 | ≥4 |
| Multiplus II (GX) 48/3000/35-32 | ≥1 | ≥3 |
| Multiplus II (GX) 48/5000/70-50 | ≥2 | ≥4 |
| Multiplus II 120V 48/3000/35-50 | ≥1 | ≥3 |
| Multiplus II 120V 48/5000/70-95 | ≥2 | ≥4 |
| Multiplus II 48/8000/110-100 | ≥2 | ≥6 |
| Multiplus II 48/10000/140-100 | ≥3 | ≥7 |
| Multiplus II 48/15000/200-100 | ≥4 | ≥11 |
| Quattro 48/3000/35-50/50 120V | ≥1 | ≥3 |
| Quattro 48/5000/70-100/100 120V | ≥2 | ≥4 |
| Quattro 48/10000/140-100/100 120V | ≥3 | ≥7 |
| Quattro 48/5000/70-100/100 | ≥2 | ≥4 |
| Quattro 48/8000/110-100/100 | ≥2 | ≥6 |
| Quattro 48/10000/140-100/100 | ≥3 | ≥7 |
| Quattro 48/15000/200-100/100 | ≥4 | ≥11 |
| Quattro 48/15000/200-100/100 277V | ≥4 | ≥11 |
| Quattro II 48/5000/70-50 | ≥2 | ≥4 |
| RS Smart Solar 48/6000 | ≥2 | ≥5 |
| Multi RS Solar 48/6000 | ≥2 | ≥5 |
| Multi RS Solar 48/6000 Dual Tracker | ≥2 | ≥5 |

| | | |
|--|----|----|
| Easysolar II 48/3000/35-32 MPPT 250/70 GX | ≥1 | ≥3 |
| Easysolar II 48/5000/70-50 MPPT 250/100 GX | ≥2 | ≥4 |

1.2 MultiPlus and Quattro Inverter Chargers

| General | |
|--|---|
| Enable Battery monitors | Yes |
| Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| SoC When Bulk Finished | 95% |
| Charging Efficiency | 96% |
| Charger | |
| Enable Charger | Yes |
| Absorb Voltage | 57.6V |
| Float Voltage Standby (Long Term Float) | 54.4V ~ 56V |
| Float Voltage Cyclic (Short Term Float) | 57.6V |
| Charging Current | 0.7C – 70% of total Ah Capacity Installed |
| Duplicated Absorb Period | 7 days |
| Duplicated Absorb Time | 4h |
| Maximum Absorb Time | 4h |
| Charging Curve | Fixed |
| Type of Battery | Lithium |
| Assistant (Off-grid) | |
| ESS | |

Notes:

1. Do NOT use ESS mode in off-grid systems.
2. Familiarize yourself with the features and programming requirements of the Victron devices.
3. Make sure battery capacity is sufficient to power the loads in backup mode.

| | |
|--------------------------------------|---|
| Battery System | LFP |
| Battery Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Country/Grid Code Standard | Set the correct country |
| VE Configure Battery Type Selection | Default |
| Continuous Voltage (Sustain Voltage) | 48V |
| Discharging Voltage (0.005C) | 50.2V |
| Discharging Voltage (0.25C) | 49.5V |
| Discharging Voltage (0.7C) | 48V |
| Discharging Voltage (2C) | 46V |
| Relaunch Deviation | 1.2V |

Inverter

| | |
|--------------------------|--|
| Shut Down DC Input (Low) | 48V (SOC=0%) 49.5V (SOC=10%) 50.2V (SOC=20%) |
| Restart DC Input (Low) | Shut down voltage(+2V) |
| Warning DC Input (Low) | Shut down voltage(+1V) |
| Shut Down SoC (Low) | No use |

1.3 Multi RS Solar

| Battery | |
|-----------------------------------|--|
| Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Maximum Charging Current | 0.7C – 70% of total Ah Capacity Installed |
| Battery Preset | User Defined |
| Battery Chemistry | Lithium |
| Expert Mode | On |
| BMS Controlled | Off |
| Shutdown on Low SoC | Off |
| Dynamic Cut-off | Off |
| Battery Shutdown (Low) | 48V (SOC=0%) 49V (SOC=10%) 50.2V (SOC=20%) |
| Battery Restart and Warning (Low) | Shut down voltage(+2V) |
| Charge Detect | 52V |
| Absorption Voltage | 57.6V |
| Float Voltage | 57.6V |
| Equalization Voltage | 57.6V |
| Storage Voltage | 57V |
| Temperature Compensation | Disabled |
| Re-Bulk Deviation | 0.4V |
| Absorption Duration | Fixed |
| Absorption Time | 4h |
| Tail Current | 1A |
| Duplicated Absorption | 7 days |
| Duplicated Absorption Time | 4h |
| Automatic Equalization | Disabled |
| Low Temperature Cut-off | 0°C |
| Peukert Exponent | 1.02 |
| Charge Efficiency Factor | 96% |
| Discharge Floor | 20% |

1.4 Victron Phoenix VE.Direct Inverters

| | |
|------------------------|-------------------|
| Victron Connect | SIMPO 5000 |
|------------------------|-------------------|

| | |
|-----------------------------|-------------------------|
| Dynamic Cut-off | Off |
| Battery Shut Down (Low) | 48V (SOC=0%) |
| | 49.5V (SOC=10%) |
| | 50.2V (SOC=20%) |
| Battery Restart and Warning | Shut down voltage (+2V) |
| Charge Detect | 52V |

1.5 Victron BMV and SmartShunt Settings

| | Settings |
|--------------------------|---|
| Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Charging Voltage | 57V |
| Discharge Floor | 20% |
| Tail Current | 4% |
| Charge Detect Time | 1 min |
| Peukert Exponent | 1.02 |
| Charge Efficiency Factor | 96% |
| Current Threshold | 0.1A |
| Average Period | 3 min |

1.6 MPPT and Charge Controllers

| | Settings |
|--|---|
| Battery Voltage | 48V |
| Maximum Charging Current | 0.7C – 70% of total Ah Capacity Installed |
| Charge Enabled | On |
| Battery Preset | User Defined |
| Expert Mode | On |
| Absorb Voltage | 57.6V |
| Float Voltage Standby (Long Term Float) | 56V |
| Float Voltage Cyclic (Short Term Float) | 57.6V |
| Equalization Voltage | 57.6V |
| Re-Bulk Deviation | 0.4V |
| Absorb Duration | Fixed |
| Absorb Time | 4h |
| Tail Current | 1A |

| | |
|---------------------------------|----------|
| Equalization Current Percentage | 0% |
| Auto Equalization | Disabled |
| Temperature Compensation | Off |
| Low Temperature Cut Off | 0°C |

Note:

If you use a Victron Solar Charge Controller with a MultiPlus or Quattro, some conflicts caused by cable impedance may occur when charging. In this case, the SoC displayed can get stuck on 95%. You may need to set MultiPlus or Quattro 0.3V below the Solar Charge controller.

1.7 GX Systems Controller

| SYSTEM SETUP | |
|---|---|
| Battery Monitor | Select the Soc Source |
| DVCC | |
| DVCC | On |
| Limit Charge Current | On |
| Maximum Charge Current | 0.7C – 70% of total Ah Capacity Installed |
| Note | Recommend all other DVCC settings off unless systems integrator understands implications. |
| ESS | |
| Note | ESS Assistant MUST be installed in MultiPlus or Quattro before activating this function. |
| Mode | Read Product Manual – Recommend Optimised (Without battery life for cycling application). Keep batteries charged (for maximum blackout reserve). |
| Minimum SoC (Unless Grid Fails) *Optimised Mode | Recommend >30% |
| Limit Charge Power | On |
| Maximum Charge Power | 0.7C – 70% of total Ah Capacity Installed – NB in Watts |
| Charging Curve | Fixed |
| Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Absorb Stage Voltage | 57.6V |
| Absorb Time | 4h |
| Maximum charging current | 0.7C – 70% of total Ah Capacity Installed |
| Charging Efficiency | 96% |
| Equalize Stage Voltage | 57.6V |

2. SMA Inverters / Chargers setting

2.1 Recommended Minimum Battery Modules

| Inverter | Single Phase | Three Phase |
|----------|--------------|-------------|
| SI 4.4M | ≥1 | ≥2 |
| SI 6.0H | ≥2 | ≥4 |
| SI 8.0H | ≥2 | ≥4 |
| 4548-US | ≥2 | ≥3 |
| 6048-US | ≥2 | ≥4 |

2.2 Settings for Sunny Island 4.4M, 6.0H and 8.0H-12 and 13

| Settings | |
|---|---|
| Battery Type | Valve Regulated Lead Acid |
| Nominal Battery Voltage | 48V |
| Nominal Battery Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Device Configuration | Charge |
| Maximum charging current | 0.7C – 70% of total Ah Capacity Installed |
| Time for Boost Charge | 2 Hours |
| Time for Equalisation Charge | 2 Hours |
| Time for Full Charge | 2 Hours |
| Discharge Cut Off Voltage | 48 |
| Maximum Discharge Current | Leave Default |
| Cell Charge Nominal Voltage for Boost Charge | 2.35V |
| Cell Charge Nominal Voltage for Full Charging | 2.35V |
| Cell Charge Nominal Voltage for Equalisation Charge | 2.35V |
| Float Voltage Cyclic (Short Term Float) (Example Solar Application) | 2.35V |
| Float Voltage Standby (Long Term Float) (Example UPS Application) | 2.33V |
| Cycle Time Full Charge | 7 days |
| Cycle Time Equalisation Charge | 28 days |
| Battery Temperature Compensation | 0° |
| Automatic Equalisation Charge | Disable (set to off) |
| Voltage Setpoint with Deactivated BMS | 57.6V |
| Protection mode (Recommend) | |
| Start time A | Default |

SMA

| | |
|------------------------------------|---------|
| Start time B | Default |
| End time A | Default |
| End time B | Default |
| Limit of Battery State of Charge A | 30% |
| Limit of Battery State of Charge B | 25% |
| Limit of battery state of Charge C | 20% |

2.3 Setting for Sunny Island 4.4M, 6.0H and 8.0H-1I and older models

| Basic Configuration | |
|---|---|
| Battery type | Valve Regulated Lead Acid |
| Nominal Battery Voltage | 48V |
| Nominal Battery Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| 222# Chagemode Enter Installer Mode | |
| 222.01 BatChrgCurMax (Maximum battery charging current in A) | 0.7C – 70% of total Ah Capacity Installed |
| Enter Expert Mode | |
| 222.02 AptTmBoost (Absorption time for boost charge) | 120min |
| 222.03 AptTmFul (Absorption time for full charge) | 2h |
| 222.04 AptTmEqu (Absorption time for equalisation charge) | 2h |
| 222.05 CycTmFul (Cycle time of full charge) | 7 days |
| 222.06 CycTmEqu (Cycle time of equalisation charge) | 28 days |
| 222.07 ChrgVtgBoost (Cell boost charge voltage) | 2.35V |
| 222.08 ChrgVtgFul (Cell full charge voltage) | 2.35V |
| 222.09 ChrgVtgEqu (Cell equalisation voltage) | 2.35V |
| 222.10 ChrgVtgFlo (Cell float voltage) | 2.35V |
| 222.11 BatTmpCps (Battery temperature compensation) | 0°C |
| 222.12 AutoEquChrgEna | Disable |

| | |
|---|---------|
| (Automatic equalisation charge) | |
| 222.13 BatChrgVtgMan | 57.6V |
| 223# Protection (Recommend) | |
| 223.01 BatProITmStr (Start time protection mode 1) | Default |
| 223.02 BatProITmStp (Stop time protection mode 1) | Default |
| 223.03 BatPro2TmStr (Start time protection mode 2) | Default |
| 223.03 BatPro2TmStp (Stop time protection mode 2) | Default |
| 223.05 BatProISoc (Protection mode 1) | 30% |
| 223.06 BatProISoc (Protection mode 2) | 25% |
| 223.07 BatProISoc (Protection mode 3) | 20% |

3. Selectronic SP PRO Setting

3.1 Recommended Minimum Battery Modules

| Inverter | Single Phase | Three Phase |
|----------|--------------|-------------|
| SPMC480 | ≥1 | ≥3 |
| SPMC481 | ≥2 | ≥5 |
| SPMC482 | ≥3 | ≥7 |

3.2 Selectronic SP PRO Setting for SP Link

| | Settings | |
|---|-------------|---|
| Battery Type | Quick Start | Lithium LiFePO4 |
| Battery Capacity | Quick Start | Total Ah Capacity of SIMPO 5000 Installed |
| Voltage DC Shut Down 0% Load | Inverter | 48V 0% SoC |
| | | 49.50V 10% SoC |
| | | 50.20V 20% SoC |
| Voltage DC Shut Down 100% Load | Inverter | 46V |
| Recovery Voltage | Inverter | 52V |
| Shut Down SoC % (When manual or no generator installed off grid) | Inverter | 20% (Recommended Only) |
| Shut Down SoC % (When Automatic Start Generator installed) | Inverter | 15% (Recommended Only) |
| Shut Down SoC % (when grid connected and Daily Stop SoC set to 20%) (Recommended) | Inverter | 15% (Recommended Only) |
| Max Charge Voltage | Battery | 56.4V |
| High Battery Alert Voltage | Battery | 58.4V |
| High Battery Alert Clear Voltage | Battery | 57.4V |
| Periodic Equalise | Battery | N/A Disabled |
| Periodic Recharge | Battery | 7 to 14 Days |
| Peukert's Exponent | Battery | 1.02 |
| Limit Charge Above °C | Battery | 55°C |
| Limit Rate % | Battery | 0A |
| Max Charge Current % or Amps | Charger | 0.7C – 70% of total Ah Capacity Installed |
| Initial Return Voltage | Charger | 52.9V |
| initial Return SoC | Charger | 95% |
| Initial Stage Voltage | Charger | 56.4V |
| Initial Stage Current | Charger | 100% |
| Initial Stage Time | Charger | 45 min |

| | | |
|-------------------------------------|---------|---------|
| Bulk Stage Voltage | Charger | 56.4V |
| Bulk Stage Current | Charger | 100% |
| Bulk Stage Time | Charger | 30min |
| Absorb Stage Voltage | Charger | 56.4V |
| Absorb Stage Current | Charger | 10% |
| Absorb-Float Transition Net Charge | Charger | 1% |
| Absorb-Float Transition Change Time | Charger | 60min |
| Absorb-Float Max Time | Charger | 60min |
| Float Stage Voltage | Charger | 56.4V |
| Float Stage Current | Charger | Default |
| Long Term Float Voltage | Charger | 55.8V |
| Equalise Stage Voltage | Charger | 56.4V |
| Equalise Current | Charger | 10% |
| Equalise Time | Charger | 2 hours |
| Min Temp Compensation °C | Charger | N/A |
| Max Temp Compensation °C | Charger | N/A |
| Ref A Temp Compensation mV/cell/°C | Charger | N/A |
| Ref B Temp Compensation mV/cell/°C | Charger | N/A |

4. Aerl Inverters / Chargers setting

4.1 Recommended Minimum Battery Modules

| Inverter | Modules |
|---------------|---------|
| SRX 600/55-48 | ≥1 |
| SRX 600/70-48 | ≥2 |

4.2 AERL Charger Setting

| Settings | |
|--------------------------|---|
| Battery voltage | 48V |
| Max Charge Current | 0.7C – 70% of total Ah Capacity Installed |
| Charger Current Enabled | ON |
| Charge voltages | |
| Absorption Voltage | 56.4V |
| Float Voltage | 56.4V |
| Equalization Voltage | 56.4V |
| Bulk | |
| Re-Bulk Voltage | 54V |
| Absorption | |
| Absorption Time | 2 Hours |
| Tail Current | 2A |
| Equalization | |
| Automatic Equalization | OFF |
| Temperature compensation | |
| Temperature Compensation | Disabled |
| Low Temp Cut-Off | Disabled |

Aerl

5. Outback Inverters / Chargers setting

5.1 Recommended Minimum Battery Modules

| Inverter | Modules |
|-----------|---------|
| FXR2348A | ≥1 |
| FXR2348E | ≥1 |
| VFXR3048A | ≥1 |
| VFXR3048E | ≥1 |

5.2 Outback Setting for Inverter Chargers, Hybrid Inverter and

MPPTS

| | Settings |
|--|--|
| Low Battery – Cut Out Voltage | 48V 0% SoC 49.50V 10% SoC 50.20V 20% SoC |
| Low Battery – Cut In Voltage | 52V |
| Battery Charger – Absorb Voltage | 56.4V |
| Float Voltage Standby (Short Term Float) (Example Cyclic Application) | 56.4V |
| Float Voltage Standby (Long Term Float) (Example UPS Application) | 56.4V |
| Battery Charger – Re-Float Voltage | 55.8V |
| Battery Charger – Re-Bulk Voltage | 52V |
| Battery Charger – Absorb Time | 2 hours |
| Battery Charger – Float Time | 1 hour |
| Battery Charger – Equilise | Disabled or Setting to 0 hour |
| MPPT Setting | 56.4V |
| Float Voltage Cyclic (Short Term Float) (Example Solar Application) | 56.4V |
| Float Voltage Standby (Long Term Float) (Example UPS Application) | 56.4V |
| Charge Current | 0.7C – 70% of total Ah Capacity Installed |
| Charge Controller – Charger – Absorb Time | 2 hours |
| Charge Controller – Charger – Charger – ReBulk Voltage | 52V |
| Charge Controller – Charger – Absorb End | Calculate 2 Amps for Every 100Ahs Installed |

| | |
|---|---|
| Amps | |
| Charge Controller - Charger - Temperature | Default or Turn Off |
| Charge Controller - Battery Equalise - Equalisation Voltage | Disable or Set to Same as Absorb Voltage |
| MATE3 - FLEXnet DC Adv. Control - Low SoC Warning | |
| MATE3 - FLEXnet DC Adv. Control - Low SoC Warning | ≥20% |
| MATE3 - FLEXnet DC Adv. Control - Critical Soc Warning | |
| MATE3 - FLEXnet DC Adv. Control - Critical Soc Warning | ≥10% |
| Battery Monitor - Battery Setup - Battery Amp hours | |
| Battery Monitor - Battery Setup - Battery Amp hours | Total Installed Battery Capacity in Ahs |
| Battery Monitor - Battery Setup - Charged | 56.4V |
| Battery Monitor - Battery Setup - Charged Return Amps | Calculate 2 Amps for Every 100Ahs Installed |
| Battery Monitor - Battery Setup - Time | 2 Hours |
| Battery Monitor - Battery Setup - Charge | 96% |
| Battery Monitor - Battery Setup - Shunt Enable | Y |



6. Schneider Inverters / Chargers setting

6.1 Recommended Minimum Battery Modules

| Inverter | Modules |
|--------------------------|---------|
| Connex SW4048 (7kW) | ≥2 |
| Connex SW8548 | ≥3 |
| Connex XW+ 7048 | ≥2 |
| Connex XW+ 8548 | ≥3 |
| XW Pro 6848 NA 120/240 V | ≥2 |
| XW Pro 6848 NA 120 V | ≥2 |
| Connex XW PRO 8548 | ≥3 |

6.2 Schneider Connex SW, XW+ and XW PRO Settings

| Inverter Settings | |
|---|---|
| Low Battery – Cut Out Voltage | 48V 0% SoC |
| | 49.50V 10% SoC |
| | 50.20V 20% SoC |
| LBCO Delay | 5 Seconds |
| LBCO Hysteresis | 2V |
| High Batt Cut Out | 58.4V |
| Search Watts | Default |
| Search Delay | Default |
| Charger Settings – Custom Settings | |
| Battery Type | Lithium-ion |
| Control | 3 Stage |
| Bulk Voltage | 56.4V |
| Max Bulk Current | 0.7C – 70% of total Ah Capacity Installed |
| Absorb Voltage | 56.4V |
| Max Abs Current | 0.7C – 70% of total Ah Capacity Installed |
| Float Voltage Standby (Short Term Float) (Example Solar Application) | 56.4V |
| Float Voltage Standby (Long Term Float) (Example UPS Application) | 55.8V |
| MaxFloat Current | 0.7C – 70% of total Ah Capacity Installed |
| DisChgImax | 100% |
| DisChgImax Time | 300Sec |
| Charger Settings | |
| Battery Capacity | Total Ah Capacity of SIMPO 5000 Installed |

| | |
|----------------------|---|
| Max Charge Rate | 0.7C – 70% of total Ah Capacity Installed |
| Battery Default Temp | Warm |
| Recharge Volts | 51V |
| Absorb Time | 2 Hours |
| Chg Block Start | Default |
| Chg Block Stop | Default |

6.3 Schneider Connex MPPT 80 600

| Settings | |
|--|---|
| Equalise Activate | Stop |
| Advanced Settings - Multi Unit Config > Connections | |
| DC Conn | BattBank1 |
| Advanced Settings > Charger Settings | |
| Batt Voltage | 48V |
| Batt Type | Custom |
| Batt Capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Max Charge Rate | 50% |
| Recharge Volts | 52.9V |
| Absorb Time | 2 hours |
| Dflt Battery Temp | Warm |
| Charge Cycles | 3 Stage |
| Setup | |
| Force Charge | Bulk |
| Setup > Meters | |
| Batt Temp | N/A |
| Equalise Support | Disabled |
| Equalise Voltage | 56.4V |
| Bulk Voltage | 56.4V |
| Absorb Voltage | 56.4V |
| Float Voltage Cyclic (Short Term Float) (Example Solar Application) | 56.4V |
| Float Voltage Standby (Long Term Float) (Example UPS Application) | 55.8V |

6.4 Schneider Connex MPPT 60 150

| Battery Menu | |
|-----------------------|--------|
| Equalise Activate | Stop |
| Equalisation Reminder | 0 Days |
| Battery Bank 1 | 1 |

| | |
|--|---|
| Battery Voltage | 48V |
| Battery Type | Custom |
| Capacity Limit | Total Ah Capacity of SIMPO 5000 Installed |
| Recharge Volts | 52.9V |
| Max Absorb Time | 2 hours |
| Force State bulk | Bulk |
| Dflt Battery Temp | Warm |
| Charge Cycles | 3 Stage |
| Custom Settings | |
| Equalise Support | Off |
| Equalise Voltage | 56.4V |
| Bulk Voltage | 56.4V |
| Absorb Voltage | 56.4V |
| Float Voltage Cyclic (Short Term Float) (Example Solar Application) | 56.4V |
| Float Voltage Standby (Long Term Float) (Example UPS Application) | 55.8V |

7. Plasmatronics Inverters / Chargers setting

7.1 Setting for Plasmatronics PL and Dingo Series

| Settings | |
|--|--|
| Volt | 48V |
| PROG | 4 |
| BCAP | Total Ah Capacity of SIMPO 5000 Installed |
| SET/REG Menu | |
| BMAX | 57.6V |
| EMAX | 57.6V |
| ETIM | 4 Hours |
| EFRQ | 28 Days |
| ABSV | 57.6V |
| ATIM | 2 Hours |
| FLTV Float Voltage Cyclic (Example Solar Application) | 57.6V |
| FLTV Float Voltage Standby (Example UPS Application) | 54.4V to 56V |
| HYST | 0.2V |
| BRTN | 53V |
| CHRG | 0.7C – 70% of total Ah Capacity Installed |
| BFRQ | 14 Days |
| TCMP | 8 |
| Notes | |
| Load Disconnect SoC | If DC loads are being controlled by the Plasmatronics, it is highly recommended that the load is disconnected at 20% SoC (80% DoD) |
| Load Disconnect Voltage | If DC loads are being controlled by the Plasmatronics, it is highly recommended that the load is disconnected on Voltage >48V. |
| Alarm | The Plasmatronics have an alarm function. This if used should be set to alarm you before you get to >48V. |

Plasmatronics

8. Deye Inverters / Chargers setting

8.1 Recommended Minimum Battery Modules

| Inverter | Battery Modules |
|---------------------|-----------------|
| SUN-3.6K-SG01LP1-EU | ≥2 |
| SUN-5K-SG01LP1-EU | ≥2 |
| SUN-7.6K-SG01LP1-EU | ≥3 |
| SUN-8K-SG01LP1-EU | ≥3 |
| SUN-12K-SG01LP1-EU | ≥4 |
| SUN-14K-SG01LP1-EU | ≥4 |
| SUN-16K-SG01LP1-EU | ≥5 |
| SUN-3.6K-SG03LP1-EU | ≥2 |
| SUN-4.6K-SG03LP1-EU | ≥2 |
| SUN-5K-SG03LP1-EU | ≥2 |
| SUN-5.5K-SG03LP1-EU | ≥2 |
| SUN-6K-SG03LP1-EU | ≥2 |
| SUN-5K-SG04LP3-EU | ≥2 |
| SUN-6K-SG04LP3-EU | ≥2 |
| SUN-8K-SG04LP3-EU | ≥3 |
| SUN-10K-SG04LP3-EU | ≥3 |
| SUN-12K-SG04LP3-EU | ≥4 |
| SUN-3K-SG04LP1-EU | ≥1 |
| SUN-3.6K-SG04LP1-EU | ≥2 |
| SUN-5K-SG04LP1-EU | ≥2 |
| SUN-6K-SG04LP1-EU | ≥2 |
| SUN-3.6K-SG05LP1-EU | ≥2 |
| SUN-5K-SG05LP1-EU | ≥2 |
| SUN-6K-SG05LP1-EU | ≥2 |
| SUN-7K-SG05LP1-EU | ≥2 |
| SUN-7.6K-SG05LP1-EU | ≥3 |
| SUN-8K-SG05LP1-EU | ≥3 |
| SUN-5K-SG01LP1-US | ≥2 |
| SUN-6K-SG01LP1-US | ≥2 |
| SUN-7.6K-SG01LP1-US | ≥3 |
| SUN-8K-SG01LP1-US | ≥3 |
| SUN-12K-SG04LP1-US | ≥4 |

8.2 Battery Setting for Deye Inverters

| Setting | |
|-----------------------------|---|
| Battery Type | Batt-V mode |
| Battery capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Float Voltage | 56.9V |
| Absorption Voltage | 56.9V |
| Equalization Voltage | 56.9V |
| Equalization cycle | 0 Days |
| Equalization Operating Time | 0h/2 |
| Battery Empty Voltage | 50.2V |
| Battery resistance | 0 mΩ |
| Battery charge efficiency | 96% |
| Temperature compensation | 0 |
| Max A Charge | 0.7C – 70% of total Ah Capacity Installed |
| Max A Discharge | 0.7C – 70% of total Ah Capacity Installed |
| Battery Shutdown Voltage | 50.20V |
| Battery Restart Voltage | 51.2V |
| Battery Low Voltage | 51.2V |
| Activate Battery | Enable |
| Disable Float Charge | Disable |



9. Noark Inverters / Chargers setting

9.1 Recommended Minimum Battery Modules

| Inverter | Modules |
|------------------|---------|
| Ex9N-DH-3KS-AU | ≥1 |
| Ex9N-DH-3.6KS-AU | ≥1 |
| Ex9N-DH-5KS-AU | ≥2 |
| Ex9N-DH-6KS-AU | ≥2 |
| Ex9N-DH-7.6KS-AU | ≥3 |
| Ex9N-DH-8KS-AU | ≥3 |
| Ex9N-DH-5KT-AU | ≥2 |
| Ex9N-DH-6KT-AU | ≥2 |
| Ex9N-DH-8KT-AU | ≥3 |
| Ex9N-DH-10KT-AU | ≥3 |
| Ex9N-DH-12KT-AU | ≥4 |
| Ex9N-DH-3KS-AU | ≥1 |

9.2 Battery Setting for Noark Inverters

| | Settings |
|-----------------------------|---|
| Battery Type | Batt-V mode |
| Battery capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Float Voltage | 56.9V |
| Absorption Voltage | 56.9V |
| Equalization Voltage | 56.9V |
| Equalization cycle | 0 Days |
| Equalization Operating Time | 0h/2 |
| Battery Empty Voltage | 50.2V |
| Battery resistance | 0 mΩ |
| Battery charge efficiency | 96% |
| Temperature compensation | 0 |
| Max A Charge | 0.7C – 70% of total Ah Capacity Installed |
| Max A Discharge | 0.7C – 70% of total Ah Capacity Installed |
| Battery Shutdown Voltage | 50.20V |
| Battery Restart Voltage | 51.2V |
| Battery Low Voltage | 51.2V |
| Activate Battery | Enable |
| Disable Float Charge | Disable |

10. Solis Inverters / Chargers setting

10.1 Recommended Minimum Battery Modules

| Inverter | Single phase | Three phase |
|-------------------|--------------|-------------|
| RHI-3K-48ES-5G | ≥1 | / |
| RHI-3.6K-48ES-5G | ≥1 | / |
| RHI-4.6K-48ES-5G | ≥2 | / |
| RHI-5K-48ES-5G | ≥2 | / |
| RHI-6K-48ES-5G | ≥2 | / |
| RAI-3K-48ES-5G | ≥1 | / |
| S5-EHIP3K-L | ≥1 | / |
| S5-EHIP3.6K-L | ≥1 | / |
| S5-EHIP4.6K-L | ≥2 | / |
| S5-EHIP5K-L | ≥2 | / |
| S5-EHIP6K-L | ≥2 | / |
| S5-EOIP4K-48 | ≥2 | / |
| S5-EOIP4K-48-P | ≥2 | / |
| S5-EOIP5K-48 | ≥2 | / |
| S5-EOIP5K-48-P | ≥2 | / |
| S6-EOIP4K-48 | ≥2 | ≥4 |
| S6-EOIP5K-48 | ≥2 | ≥5 |
| S6-EHIP3K-L-EU | ≥1 | ≥3 |
| S6-EHIP3.6K-L-EU | ≥2 | ≥4 |
| S6-EHIP4.6K-L-EU | ≥2 | ≥4 |
| S6-EHIP5K-L-EU | ≥2 | ≥5 |
| S6-EHIP6K-L-EU | ≥2 | ≥6 |
| S6-EHIP3K-L-PRO | ≥1 | ≥3 |
| S6-EHIP3.6K-L-PRO | ≥2 | ≥4 |
| S6-EHIP5K-L-PRO | ≥2 | ≥5 |
| S6-EHIP6K-L-PRO | ≥2 | ≥6 |
| S6-EHIP8K-L-PRO | ≥3 | ≥7 |

10.2 Battery Setting for Solis Inverters

| | |
|------------------|---|
| Battery Type | Lead Acid Battery |
| Battery capacity | Total Ah Capacity of SIMPO 5000 Installed |
| Floating voltage | 57.6V |
| I_Max Discharge | Max. 100A per battery installed |



| | |
|----------------------|----------------------------------|
| I_Max Charge | Max. 70A per battery installed |
| Equalizing Voltage | 57.6V |
| Overdischg Voltage | 50.2V |
| Force Charge Voltage | 48V |
| ForceChg PLmt | Max. 3500W per battery installed |
| Temp. Compensation | 0 |
| AMB. Temp.Lower | 5°C |
| AMB.Temp.Upper | 45°C |
| Power Limit On | From Grid |
| Save and Send | |
| Environment Temp | Warm |

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