Inverter Setting Guide

for SIMPO5000 (No Communication)

Contents

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	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℃
Peukert Exponet	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℃

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

SMA

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

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-11 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# Chargemode **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 BatPro1TmStr (Start time protection mode 1)	Default
223.02 BatPro1TmStp (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 BatPro1Soc (Protection mode 1)	30%
223.06 BatPro1Soc (Protection mode 2)	25%
223.07 BatPro1Soc (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	OA
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 ℃	Charger	N/A
Max Temp Compensation ℃	Charger	N/A
Ref A Temp Compensation mV/cell/℃	Charger	N/A
Ref B Temp Compensation mV/cell/℃	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

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 – Equlise	Disabled or Setting to 0 hour
	MPPT Setting
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
MATE3s Settings	
MATE3 - FLEXnet DC Adv. Control - Low SoC Warning	⩾20%
MATE3 - FLEXnet DC Adv. Control - Critical Soc Warning	⩾10%
Battery Monitoring Settings	
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 Plamatronics, 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 Plamatronics, 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.

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-EH1P3K-L	≥1	/
S5-EH1P3.6K-L	≥1	/
S5-EH1P4.6K-L	≥2	/
S5-EH1P5K-L	≥2	/
S5-EH1P6K-L	≥2	/
S5-EO1P4K-48	≥2	/
S5-EO1P4K-48-P	≥2	/
S5-EO1P5K-48	≥2	/
S5-EO1P5K-48-P	≥2	/
S6-EO1P4K-48	≥2	≥4
S6-EO1P5K-48	≥2	≥5
S6-EH1P3K-L-EU	≥1	≥3
S6-EH1P3.6K-L-EU	≥2	≥4
S6-EH1P4.6K-L-EU	≥2	≥4
S6-EH1P5K-L-EU	≥2	≥5
S6-EH1P6K-L-EU	≥2	≥6
S6-EH1P3K-L-PRO	≥1	≥3
S6-EH1P3.6K-L-PRO	≥2	≥4
S6-EH1P5K-L-PRO	≥2	≥5
S6-EH1P6K-L-PRO	≥2	≥6
S6-EH1P8K-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℃
AMB.Temp.Upper	45℃
Power Limit On	From Grid
Save and Send	
Environment Temp	Warm

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