Definition of Parameter Settings (ESS LINK&Screen)

This document is an explanation of each parameter setting item in ESS LINK&Screen. When you encounter problems setting parameters in the APP or screen, please check this document.

Setting Description	Definition	Suggested setting Yes/No	When/Why to set with "Suggested Setting" /Remark
General Settings(Settings for installers)			
Powered On/Off	turn on/off inverter	Yes	
Date	Same as the user's local date	Yes	Calibrate the time when first installed
Working Mode	Select the current working mode of inverter	Yes	When switching the inverter working mode
Charge Time Period	Battery charging time period	Yes	When the working mode is battery charging and discharging
Charging power	Battery charging power	Yes	When the working mode is battery charging and discharging
Discharging Time Period	Battery discharging time period	Yes	When the working mode is battery charging and discharging
Discharging power	Battery discharging power	Yes	When the working mode is battery charging and discharging
Other period modes	Working mode during non-charging/discharging period	Yes	This item must be set
Repetitive weeks	Days of wish to work per week	Yes	This item must be set
Effective date	Date range you wish to work	Yes	This item must be set

Fault Clearing	Clear the fault reported by inverter and perform self-test	Yes	When the inverter reports a fault
Batt min soc	Battery stops discharging value when off-grid	Yes	Set according to usage
Batt Maximum soc	Battery stops charging value	Yes	Set according to usage
Batt backup soc	Battery stops discharging value when on-grid	Yes	Set according to usage
Batt Max. Charge Current	The max current of the inverter to charge the battery	Yes	Set according to usage
Batt Max. Discharge Current	The max current of the inverter to discharge the battery	Yes	Set according to usage

Definition of Advanced Parameter Settings (ESS LINK&Screen)

Setting Description	Definition	Suggested setting Yes/No	When/Why to set with "Suggested Setting" /Remark
Master Settings-Routine(Settings for installers)			
Anti Backflow Period	Prevent the inverter from feeding power to the grid	Yes	Turned on when user's local authority prohibits inverter from selling electricity to the grid.
Feed-in Power limit	When anti backflow function is enabled, the power fed to the grid is limited.	Yes	When anti backflow function is enabled, user can manually set the minimum feed-in power. The feed power will not be higher than this value

Anti-Reverse Mode	Anti-Reverse method	No	Users don't need to setup
Anti backflow time period repetitive weeks	Days of wish to work per week	Yes	When selecting dayparting, set the corresponding days
Anti backflow time period starting and ending time	The time period prohibits inverter from selling electricity to the grid	Yes	When selecting dayparting, set the corresponding time period to anti backflow
Voltage level	Local Grid type	No	Default adaptive. Set according to actual situation
Input frequency	Set according to the frequency requirements of local national grid	No	Default 50Hz,If the local grid frequency is 60Hz, manual modified
ACCoupling mode	Connect to PV inverter	No	only need to set when the inverter being connected to a PV inverter to expand power generation.
Enablishment side grid power limit enable	Whether to limit the power of the grid input inverter	No	only need to set When the Grid is weak
Grid power limit	Limit the power of the grid input inverter	No	only need to set When the Grid is weak
BMS RS485 multiplexing	Change the function of the BMS/RS485 interface, and set it to connect to BMS communications or external EMS device communications	No	When using an external EMS device to control the inverter, it need to select "Slave Secondary Port"
Stand-alone/parallel	Single inverter running, or multiple machines running in parallel	No	only need to set when inverter running in parallel
Number of device	When multiple inverters are running in parallel, fill in the total number of inverters.	No	only need to set when inverter running in parallel

Parallel device SN	When multiple inverters are running in parallel, fill in the serial number of each inverter in order.	No	only need to set when inverter running in parallel
1 Phase parallel mode	Ordinary parallel or three 1 phase parallel to 3 phase	No	Set according to usage
Professional settings			
Grid unbalance comp.	When connected to the grid, the unbalanced three-phase load can be compensated by batteries.	No	Enabled by default
Output voltage coeff.	Ratio of inverter's actual output voltage to norminal voltage	No	
Inverter power limit	Limit inverter output power	No	
Output derating factor	Ratio of inverter's actual output power to nominal power	No	
Self consumption power supply	Sources of inverter standby power consumption	No	Default grid
Special settings			
N-PE relay	Close the N-PE relay inside the inverter (used in some special areas)	No	Default disenable
Off-grid with PV Only	Only PV connection works	Yes	Inverter can still work when both the grid and the battery are disconnected
Lead acid battery NTC	Select according to the actual situation when connect to lead-acid battery	Yes	If NTC is not connected, you need to select None NTC to use it normally.
Data dump			

Celar total power	Clear the displayed total power data	No	
Celar daily energy	Clear the displayed current day's power data	No	
Factory reset	Restore all settings to default values	No	
Master Settings-Peripheral(Settings for installers)			
DO function	Dry contact output	No	Enable when using generator or heat pump
Meter	Control whether or not the meter is connected	Yes	Default enabled
Meter access method	Select the meter access location according to actual conditions	Yes	Only 6000S models need to set
CT Ratio		No	No user setup required
Meter CT ratio		No	No user setup required
Meter model	The meter model connected to the system	Yes	Set according to usage
Generator	Select the working mode after connecting the generator	No	Default disenable
AFCI	Arc Fault Circuit Interrupters	No	Default disenable
Clear fault	Clear the fault reported by inverter and perform self-test	No	When the inverter reports an arc fault, it needs to be cleared manually.
Channel self-test	Perform a self-test on the inverter	No	Click to perform manual self-test
Alarm gear	Sensitivity level for detecting faults	No	Default is 3
Master Settings-Certification(Settings for installers)			
Certification country	Select the country where the inverter is installed	No	just set it in first installation
Battery Settings(Settings for installers)			

Batt enabled	Enable Battery	Yes	Enabled by default
Battery type	Type of connected battery	Yes	select according to the actual type of connected battery
Battery connection method	Batteries can be connected in parallel or independently	Yes	when switching the battery access method
Batt			
Batt capacity		No	Inverter automatic reading
Batt protocol	Select communication protocol between battery and inverter	Yes	Set according to usage,default Pylon
BMS communication method	Communication method between inverter and battery	No	Default CAN,the inverter only support CAN
Batt min. soc	Battery stops discharging value when off-grid	Yes	Set according to usage
Batt maximum soc	Battery stops charging value	Yes	Set according to usage
Batt backup soc	Battery stops discharging value when on-grid	Yes	Set according to usage
Batt discharge hysteresis	The value of charge required from the min. soc to be able to discharge again	Yes	Set according to usage
Batt rated voltage	Battery rated charging voltage	Yes	Set according to usage
Batt overvoltage setting value	Battery charging voltage upper limit value	Yes	Set according to usage
Batt undervoltage setting	Battery charging voltage lower limit value	Yes	Set according to usage
Batt Max. Charge current	Battery maximum charging current	Yes	set the maximum charging current of battery
Batt Max. Discharge current	Battery maximum discharge current	Yes	set the maximum discharge current of battery

Batt activation	Used to wake up the battery when it is sleep	No	
Activation voltage of battery	Voltage value when activating the battery	No	
PV			
PV Enabled	Enable PV	Yes	Enabled by default
Battery self-test completed		No	For RD/Test purpose only
1 battery in parallel	One battery connected to multiple inverters	Yes	Set according to usage
Battery self-test		No	For RD/Test purpose only

Note: The above settings are commonly used by users. The settings not mentioned are for R&D testing purposes only and users do not need to pay attention to them.