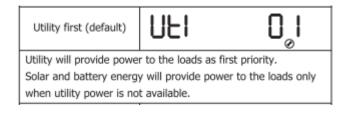
2K-3K Off Grid inverters with lithium-ion battery Settings Introduction

1st option: Output source Priority



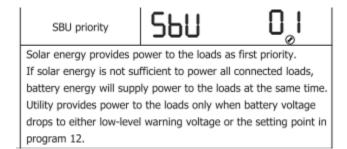


Solar energy provides power to the loads as first priority. If solar energy is not sufficient to power all connected loads, battery energy will supply power the loads at the same time. Utility provides power to the loads only when any one condition happens:

- Solar energy is not available
- Battery voltage drops to either low-level warning voltage or the setting point in program 12.

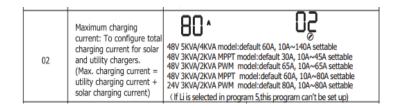
Low level warning voltage: 21th option voltage + 2V

If you want to make full use of solar energy. The option can be chosen.



If you want to make full use of battery energy. The option can be chose.

2nd option: Charging current



For single lithium-ion battery, the charging current should be less than 30A . Or too large charging current will cause BMS protection.

3rd option: AC input voltage range

		APL 03	If selected, acceptable AC input voltage range will be within 90~280VAC
03	AC input voltage range	UPS 03	If selected, acceptable AC input voltage range will be within 170~280VAC
		GEN 03	If selected, acceptable AC input voltage range will be within 90~280VAC

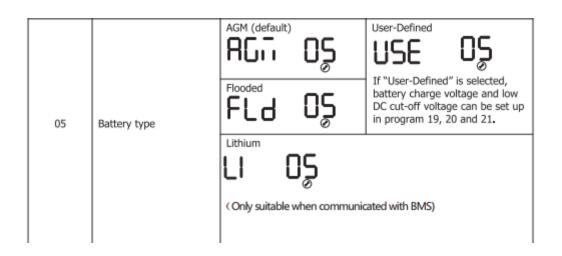
If you utility input is not stable, you can choose GEN 03, it accepts wide voltage range. Or unstable voltage will affect inverter.

Fourth option:

04	Power saving mode	Saving mode disable (default)	If disabled, no matter connected load is low or high, the on/off status of inverter output will not be effected.
0.	enable/disable	SEN DY Saving mode enable	If enabled, the output of inverter will be off when connected load is pretty low or not detected.

Default value is Sd5, If it is enabled, when the load is lower than 150W, inverter will stop AC output. **Please highlight the point.**

5th option:



For AGM lead acid battery, You can use AGM or USE. For FLD lead acid battery, you can use FLD For Gel lead acid battery, you can use AGM or USE

If USE-Defined is selected, 19th ,20th ,21th can be modified.

6th option:

		Restart disable (default)	Restart enable
06	Auto restart when overload occurs	r⊦9 0 ề	rle oè

Default value is ok.

7th option:

Auto restart when over temperature occurs EHA 0 EHE 0	I		Restart disable (default)	Restart enable
		07	FF9 0Ĵ	FFE 0Ĵ

Default value is ok.

8th option:

08	Output voltage	230V (default)	220° 08
08		240° 0B	208, 08

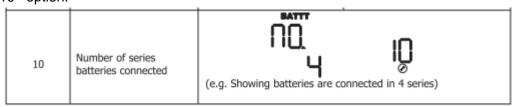
Default value is ok.

9th option:

		50Hz (default)	60Hz
09	Output frequency	50. 09	60 <u>.</u> 09

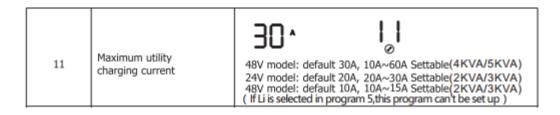
Default value is ok.

10th option:



It is fixed value. It means that your inverter matches 24V or 48V battery system. 48V will show 4, 24V will show 2.

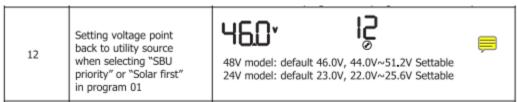
11th option:



Set max utility input charging current.

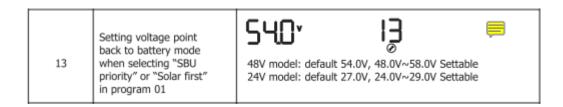
If Li is selected in program 5, it can't be modified.

12th option:



It is used to set the battery voltage point that comes back to utility input. If battery voltage is lower than the voltage point, it will transfer to utility input and charge the battery.

13th option:



It is used to set the battery voltage point that comes back to battery supply. If battery voltage is higher than the voltage point, it will transfer to battery mode.

14th option:

		_	ter is working in Line, Standby or irce can be programmed as below:
		Solar first	Solar energy will charge battery as
		CSN 14	first priority.
		[50 \frac{1}{2}	Utility will charge battery only when
		⊗	solar energy is not available.
		Utility first	Utility will charge battery as first
		CI 11- 14	priority.
	Charger source priority: To configure charger source priority		Solar energy will charge battery only
		•	when utility power is not available.
14		Solar and Utility	
		SNU 14	Solar energy and utility will both charge battery.
		Only Solar	Solar energy will be the only charger
		חכח וע	source no matter utility is available
		רו טכט	or not.
		If this off grid solar inverter is working in Battery mode or	
		Power saving mode, only	y solar energy can charge battery.
		Solar energy will charge	battery if it's available and sufficient.

It is battery charging source priority.

C50 means solar first, Solar energy will charge the battery as first priority. Utility input will charge battery only when solar energy is not available.

CUT means Utility first, utility will charge the battery as first priority. Solar energy will charge battery only when utility power is not available.

SNU means solar energy and utility will both charge battery.

050 means solar energy will be the unique charging source no matter utility input is available or not.

15th option:

			Alarm on (defaul	t)	_	Alarm off		
	15	Alarm control	8055	00	O IŠ	8022	OFF	0 IŠ
	Default value is ok.							
16	th option:							
			Backlight on (def	ault)		Backlight off		

Backlight of LCD. Default value is ok.

Backlight control

17th option:

	Bacas while primary	Alarm on (defau	lt)		Alarm off		
17	Beeps while primary source is interrupted	8685	00	0 เว้	AL AT	OFF	0 เว้

LCdb

Primary source means Solar power.

18th option:

	Overload bypass:	Bypass disa	ble (default)		Bypass ena	able	
18	When enabled, the unit will transfer to line mode if overload occurs in battery mode.	64P	dl 5	0 18	64P	ENA	0 18

Line mode means utility input mode. When overload occurs on battery mode, inverter will switch to utility input.

19th option:

19	Bulk charging voltage (C.V voltage). If self- defined is selected in program 5, this program can be set up	C.U. 56.4V, 48.0V~58.4V Settable
----	--	----------------------------------

For lead acid battery, normal voltage should be

Charging voltage 56-58V

20th option:

20	Floating charging voltage. If self-defined is selected in program 5, this program can be set up	FLEU 540° 020° Default:54.0V,48.0V~58.4V Settable

Floating voltage range:

For lead acid battery,

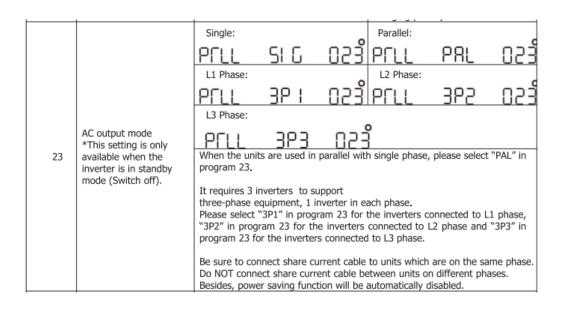
21th option:

Low DC cut-off voltage means when the battery voltage reaches cut-off voltage, inverter will shut off automatically so that it can protect battery system.

22th option:

22	Solar power balance. When enabled, solar input power will be automatically adjusted according to connected load power.	Solar power b	elance enable	(Default):	If selected, solar input power will be automatically adjusted according to the following formula: Max. input solar power = Max. battery charging power + Connected load power.
		Solar power b	alance disable:	022	If selected, the solar input power will be the same to max. battery charging power no matter how much loads are connected. The max. battery charging power will be based on the setting current in program 2. (Max. solar power = Max. battery charging power)

23th option:



24th option:

24	Allow neutral and grounding of AC output is connected together: When enabled, inverter can deliver signal to trigger grounding box to short neutral and grounding (for expansion)	Disable: Neutral and grounding of AC output is disconnected. (Default) Comparison of AC output is disconnected. Comparison of AC output is connected. Comparison of AC output is disconnected. Comparison of AC output is connected. Comparison of AC	
		This function is only available when the inverter is working with external grounding box. Only when the inverter is working in battery mode, it will trigger grounding box to connect neutral and grounding of AC output.	