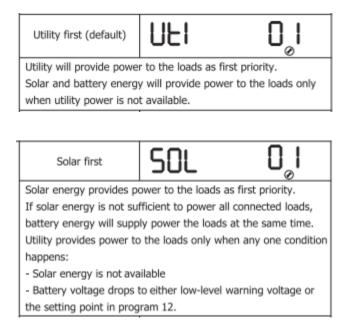
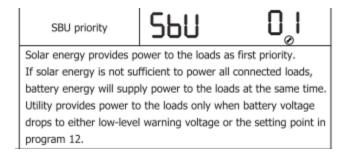
SPF 5000ES/SPF 5000TL HVM WPV with lead acid battery Settings Introduction

1st option: Output source Priority



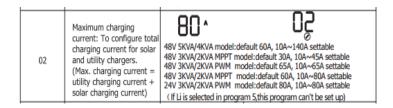
If you want to make full use of solar energy. The option can be chosen. At night, because solar energy is not available, it will switch to Utility input until Solar energy can be used.

Low level warning: 21th option + 2V



If you want to make full use of battery energy. The option can be chosen. At night, only when battery voltage drops to 12th or low level warning. It will switch to utility input.

2nd option: Charging current



For lead acid battery, the charging current should be 0.2-0.3C for single battery (C means battery capacity). If you have several batteries, 0.2-0.3C*quantity of batteries. Is charging current.

3rd option: AC input voltage range

		APL 0		If selected, acceptable AC input voltage range will be within 90~280VAC
03	AC input voltage range	UPS 0	J	If selected, acceptable AC input voltage range will be within 170~280VAC
		GEN 0	3	If selected, acceptable AC input voltage range will be within 90~280VAC

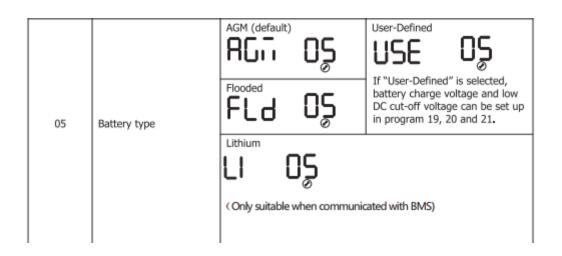
If your utility input is not stable, you can choose GEN 03, it accepts wide voltage range. Or unstable voltage will affect inverter.

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.	
	enable/disable	SEN 04 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 0è	rle oè

Default value is ok.

7th option:

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

Default value is ok.

8th option:

08	Output voltage	230V (default)	220° 08
08		240° 0B	208, 0 8

Default value is ok.

9th option:

		50Hz (default)	60Hz
09	Output frequency	50. og	60 . 09

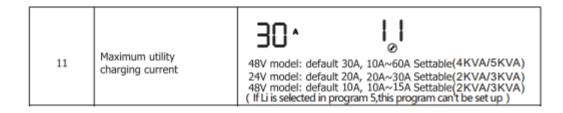
Default value is ok.

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.

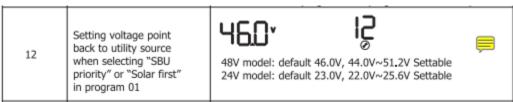
11th option:



Set max utility input charging current.

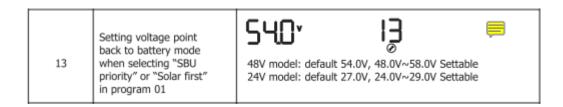
If Li is selected in program 5, it can't be modified.

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:

Charger source priority: Charger source priority: To configure charger source The source priority: Solar and Utility To configure charger source The solar and Utility The solar and			If this off arid solar inver	ter is working in Line Standby or
The state of the s			_	
Utility will charge battery only who solar energy is not available. Utility first Utility will charge battery as first Utility will charge battery as first priority. Solar energy will charge battery or when utility power is not available. Solar and Utility Utility will charge battery or when utility power is not available.			Solar first	Solar energy will charge battery as
Solar energy is not available. Utility first Utility will charge battery as first priority. Solar energy will charge battery of when utility power is not available. Solar and Utility Solar and Utility			ככח ייי	first priority.
Utility first Utility first Utility will charge battery as first priority. Solar energy will charge battery of when utility power is not available. Solar and Utility Solar and Utility			נו טכו	Utility will charge battery only when
Charger source priority: To configure charger source Charger source Solar and Utility Solar and Utility priority. Solar energy will charge battery of when utility power is not available.			Ø	solar energy is not available.
Charger source priority: To configure charger source Solar and Utility when utility power is not available			Utility first	Utility will charge battery as first
Charger source priority: when utility power is not available To configure charger source Solar and Utility Solar and Utility			רוור וע	priority.
Charger source priority: when utility power is not available 14 To configure charger source Solar and Utility			בטב יֱי	Solar energy will charge battery only
Solar and Utility	14			when utility power is not available.
I priority ' I	14		Solar and Utility	
Solar energy and utility will both		priority	כחוו וע	Solar energy and utility will both
Solar energy and utility will both charge battery.			י" חוור	charge battery.
Only Solar Solar energy will be the only char			Only Solar	Solar energy will be the only charger
source no matter utility is available or not.			חכח וע	source no matter utility is available
or not.			יין טכט	or not.
If this off grid solar inverter is working in Battery mode or			If this off grid solar inver	ter is working in Battery mode or
Power saving mode, only solar energy can charge battery.			Power saving mode, only	y solar energy can charge battery.
Solar energy will charge battery if it's available and sufficien			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	0 IŠ	8033	OFF	0 IŠ
	Default value is ok.							
16 ^t	th option:							
			Backlight on (def	ault)	_	Backlight off		

Backlight of LCD. Default value is ok.

Backlight control

17th option:

	Roons while primary	Alarm on (default)		_	Alarm off		
17	Beeps while primary source is interrupted	8185	00	וו 🛭	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	64b	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
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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
- 1			_

Floating voltage range: 54V

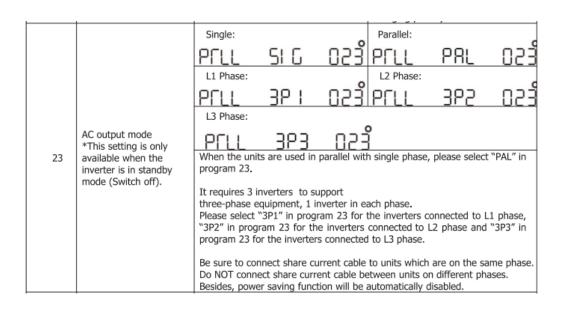
21th option:

Low DC cut-off voltage means when the battery voltage reaches cut-off voltage, inverter will force utility input to charge battery until 50% percent.

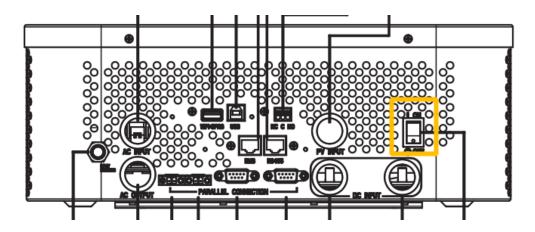
22th option:

22	Solar power balance. When enabled, solar input power will be automatically adjusted according to connected load power.	,	alance 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 ba	alance disable:	ozź	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:



Only when inverters are working in parallel on different phase, the option can be set. When setting it, make sure AC switch on the bottom is off.



24th option:

