

Inverter Setting for Lithium Battery

- Battery type set to **USER** via inverter LCD/Switch or APP.

05	Battery type	AGM (default)	Flooded
		User-Defined	If "User-Defined" is selected, battery charge voltage and low DC cut-off voltage can be set up in program 26, 27 and 29.





- Check lithium battery specification.
For example, as below:

► Battery module specification



Item		Specification	Conditions
Nominal	Voltage	51.2V	25°C,0.2C
	Capacity	100Ah	
Module weight		46.0kg	±0.5kg
Dimensions(W*D*H), mm		442*470*155 (3.5U)	±2mm
Operating parameters	Charging Voltage	56.0V~57.0V	Recommended 30A
	Discharging Voltage	43.2V	
	Charging current	Max constant charge: 100A	
	Discharging current	Max constant discharge: 135A	
Temperature	Charge range	0°C~45°C	
	Discharge range	-20°C~55°C	
	Storage range	-20°C~45°C	
BMS	Built-in BMS	Voltage, current, temperature management & cell balance	RS485 communication
Service life	Design life	>10years	
	Cycle life	>4000 times	

- Charging voltage setting: ①

Program 26 and 27 set to **56.5V**. (the setting value=lithium battery charging voltage-0.5V)

26	Bulk charging voltage (C.V voltage)	2KW/3KW default setting: 28.2V 
		5KW default setting: 56.4V 
		If self-defined is selected in program 5, this program can be set up. Setting range is from 25.0V to 31.5V for 2KW/3KW model and 48.0V to 61.0V for 5KW model. Increment of each click is 0.1V.
27	Floating charging voltage	2KW/3KW default setting: 27.0V 
		5KW default setting: 54.0V 
		If self-defined is selected in program 5, this program can be set up. Setting range is from 25.0V to 31.5V for 2KW/3KW model and 48.0V to 61.0V for 5KW model. Increment of each click is 0.1V.

4. Battery low cut-off voltage setting: 2
Program 29 set to **44.2V**. (the setting value=lithium battery cut-off voltage+1V)








29	Low DC cut-off voltage	2KW/3KW default setting: 21.0V 
		5KW default setting: 42.0V 

		If self-defined is selected in program 5, this program can be set up. Setting range is from 21.0V to 24.0V for 2KW/3KW model and 42.0V to 48.0V for 5KW model. Increment of each click is 0.1V. Low DC cut-off voltage will be fixed to setting value no matter what percentage of load is connected.
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5. Battery charging current setting:

Program 02 set to 30A, the charging current must be less than battery spec.

02	Maximum charging current: To configure total charging current for solar and utility chargers. (Max. charging current = utility charging current + solar charging current)	10A		20A	
		30A		40A	
		50A		60A (default)	
		70A		80A	