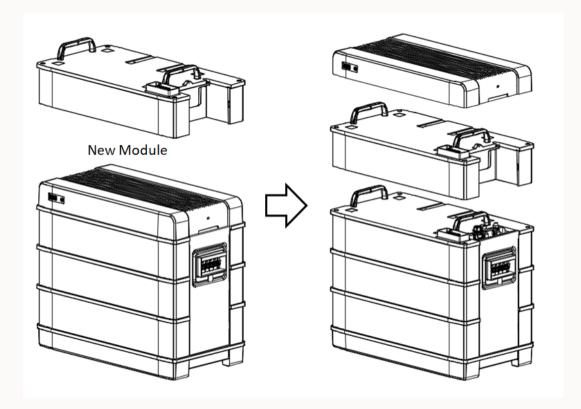


让人人享用清洁电力 Clean power for all



#### Capacity expansion in series $\rightarrow$ SOC should be the same between the old and new



Before installing a new battery module, charge and d ischarge the battery onsite to ensure that the SOC of the battery onsite is consistent with the new battery module delivered by the installer.

Since the inconsistent SOC of the battery affects the charge and discharge capacity of the entire battery g roup, so called buckets effect.

Our SBR battery has automatic equalization function, if the SOC difference is like 5% gap, the battery mod ule can automatically equalize SOC gradually within several days.

### Select the correct energy storage station

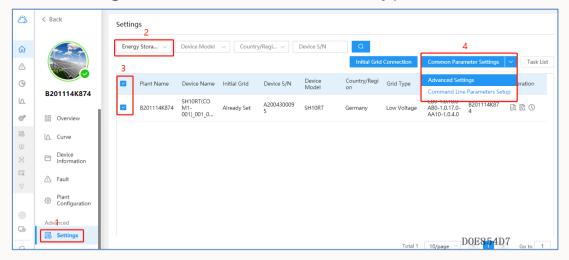


Log in using the corresponding O&M account, and select the onsite storage station that requires capacity expansion based on the power station name or device S/N

ථ් iSolarCloud	Normal	~	Plant Type	<ul> <li>✓ B20</li> </ul>	01114K874	Device S/N	Q	RR Screen	iing Column 🗲	
O&M Home Fault	Plant Image	Plant Status	Plant Name	Plant Type	Installed Power	Real-time Power ≑	Today Yield 💠	Total Yield 💠	Equivalent Hours ¢	Operation
(Report NEW	۲	<b>O</b>	B201114K874	Residential Storage	10 kWp	-32 W	0 kWh	0.1 kWh	0 Hour	¢ ů
Curve O <sup>™</sup> Advanced ∨										
Settings <ul> <li>Firmware Update</li> </ul>										
Smart IV Curve Diagnosis										
<ul> <li>Smart Alarm Analysis Setting</li> <li>Account</li> <li>Me</li> </ul>										
Background	_								201	21 Copyright

### Set the upper and lower limit SOC

1. Settings 2. Select the inverter type. 3. Select the power station. 4. Select Advanced Settings



Set upper and lower limit SOC parameters based on requirements

Pro	tection Parameters Pow	er Control	Energy Management Parame	eters	Battery Paran	neters	>		Q Inverter Parameter Query	Task List
No.	Parameter Name	Latest Valu 17:37:51	ue Update Time:2021-11-25	Numer	ical Term		Degree of accuracy	Unit	Remarks	
1	SOC Upper Limit	100		100			0.1	%	50~100	
2	SOC Lower Limit	10		20		$\otimes$	0.1	%	0~50	
3	Protection Value of Battery Average Overvoltage	0					0.1	V	0~1000	
4	Max. Charging Power	10.6					0.01	kW	0.01~10.6	
5	Max. Discharging Power	10.6					0.01	kW	0.01~10.6	
6	Battery Capacity(kWh)	0					0.01	kWh	0~600	
					3					

## Charge or discharge to the SOC the same as the new module

Protection Parameter Dever Control Energy Management Parameter Deter y Parameters Clowetrip Parameter Computing Task List   Parameter Name Lister Value Update Time:2021-11-25 Numerical Term Degree of accuracy Unit Remarks   Energy Management Compulsory Mode Image Start Power 0 Image Start Power 0   Dickberging Start Power 0 Esternal Energy Dispatch s 1-1000   MicroGrid System Mode VPP MicroGrid System Mode 7~8 month 20.0%   Total Energy Dispatch s 1-1000 6~7 month 20.0%   VPD MicroGrid System Mode s 1-1000 6~7 month 20.0%   External ENS Hearbeat 0 External Energy Dispatch s 1-1000   VPP MicroGrid System Mode s 1-1000 6~7 month 19.5%	Set the forced charge	/discharge_nowe	er as required	d Time	Re	main Estir	nate SOC
Protection Parameter Numerical Terms   Parameter Name Liftert Value Update Time:2021-11-25   Numerical Terms Degree of accuracy   Unit Remarks   Energy Management Computory Mode   Please Select WV   Octoward Parameter 0   Please Select Self-Consumption KW   Dickharging Start Power 0   Dickharging S	•	discharge powe		< 3 month	24	.0%	
Parameter Name       Latest Value Update Time/2021-11-25       Numerical Term       Degree of accuracy       Unit       Remarks         Energy Management Mode       Compulsory Mode       Imagement Find       Compulsory Mode       Imagement Find           Charging Start Power       0       Self-Consumption       KW       0-5           Discharging Start Power       0       Self-Consumption       KW       0-5	Ivanced Settings			3~4 month	23	.0%	
Energy Management Compulsory Mode   Energy Management Compulsory Mode   Charging Start Power 0   Discharging Start Power 0   External EMS Heartbeat 0   External EMS Heartbeat 0   Self-Consumption Compulsory Mode External EMS Heartbeat Self-Consumption KW 0-5 External EMS Heartbeat 0 External EMS Heartbeat 0 Self-Consumption KW 0-5 Self-Consumption Compulsory Mode Self-Consumption Self-Consumption Compulsory Mode Self-Consumption Se	Latert Meler Header Time 2024 44 25				22	.0%	
Mode       Chingdisoly Mode       I       I       I       I         Charging Start Power       0       Image: Select       KW       0-5         Discharging Start Power       0       KW       0-5         External EMS Heartbeat       0       Image: Select       S       1-1000         VP       MicroGrid System Mode       S       1-1000       Image: Select       S       04       0000         S       3       04       0000       Image: Select       <	17:37:51	2	Unit Remarks	5~6 month	21	.0%	
Charging Start Power 0   Discharging Start Power 0   Self-Consumption kW   Compulsory Mode 0-5   External EMS Heartbeat 0   External EMS Heartbeat 0   VPP   MicroGrid System Mode     3     A     1     20.0%    <	Mode Compaisory Mode	Please Select ^		6~7 month	20	.5%	
Discharging Start Power       0       kW       0-5         External EMS Heartbeat       0       S       1~100       S       1~100         VP       MicroGrid System Mode       V       EM       046       A       1       20       3       04       000         3       3       1       20       3       04       000       100       100		Please Select					
Extend Energy Dispatch version of a record							
MicroGrid System Mode         3	4 External EMS Heartbeat 0	55 1	s 1~1000				
3				EM 046		3	
3					ye	ar month	day
		3					
Apply Settings D0E854D7 EM134D221		Apply Settings	D0E854D7			1	EM134D221

Example: Assume that the SOC of the new battery module is 20%, and the battery on user site is 70%.

- 1. Set the upper limit to 100% and the lower limit to 20%, enter the forced mode.
- 2. \*Select forced charge first and issue the command. After charging to 100%, select forced discharge and issue the command. the battery will automatically discharge to 20% and stop.
- 3. Then the battery SOC on user site is the same as SOC of the new battery module 20%, so the installer can install the new battery module.

\*A calibration is performed to improve the accuracy of SOC, but it takes some time; Alternatively, the calibration step can be omitted and the target SOC value can be directly set and charged or discharged to the target SOC.

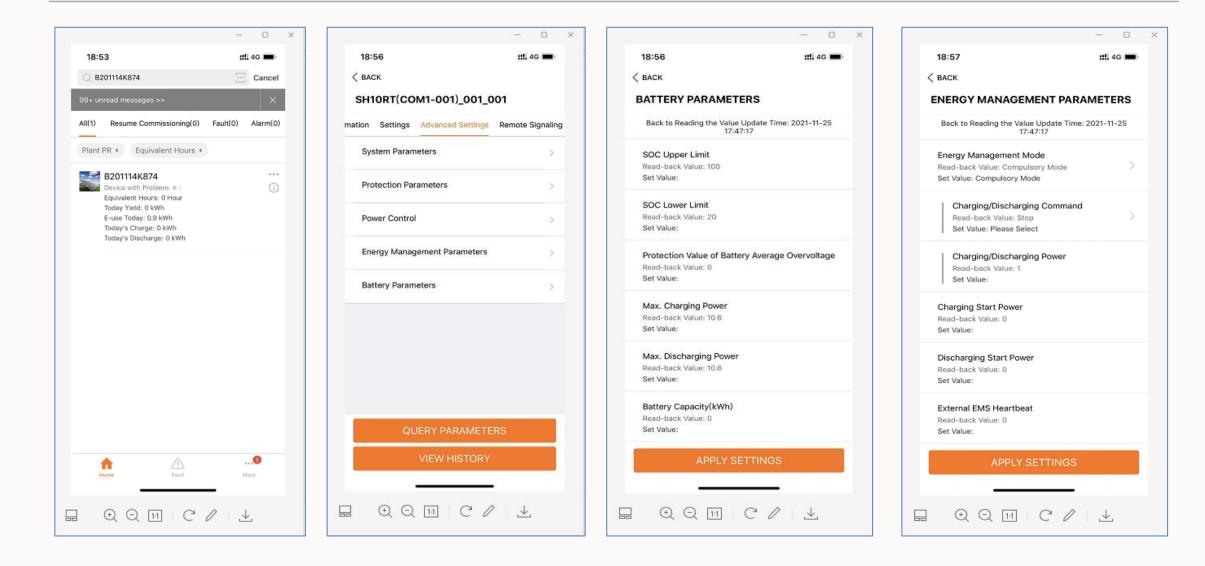
Stop the forced charge/discharge. Select stop for the charge/discharge command.

Adv	anced S	ettings	1					×
< 5	Prote	ection Parameters Powe	er Control Energy Management Param	eters Battery Paramete	rs >		Q Inverter Parameter Query	Task List
	No.	Parameter Name	Latest Value Update Time:2021-11-25 17:37:51	Numerical Term	Degree of accuracy	Unit	Remarks	
	1	Energy Management Mode	Compulsory Mode	Compulsory M 🗸				
	1-1	Charging/Discharging Command	Stop	Please Select ^				
	1-2	Charging/Discharging Power	1	Please Select	0.01	kW	0~10.6	
	2	Charging Start Power	0	Charge Discharge	0.01	kW	0~5	
	3	Discharging Start Power	0	Stop	0.01	kW	0~5	
	4	External EMS Heartbeat	0		1	s	1~1000	
				3				
				Apply Settings			D0E854	D7

#### Reset SOC upper and lower limits to the original default values (SOC upper limit 100%, SOC lower limit 10%)

						0
dvance	ed Settings		1			>
5	Protection Parameters Pow	wer Control Energy Management P.	arameters Battery Paran	neters >	Q Inve	rter Parameter Query Task List
No.	. Parameter Name	Latest Value Update Time:2021-11-2 17:47:17	5 Numerical Teem	Degree of accuracy	Unit	Remarks
1	SOC Upper Limit	100	100	0.1	%	50~100
2	SOC Lower Limit	20	10	0.1	%	0~50
3	Protection Value of Battery Average Overvoltage	0		0.1	v	0~1000
4	Max. Charging Power	10.6		0.01	kW	0.01~10.6
5	Max. Discharging Power	r 10.6		0.01	kW	0.01~10.6
6	Battery Capacity(kWh)	0		0.01	kWh	0~600
			3	_		
			Apply Settings	]		D0E854D7

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# THANK YOU!

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