

www.felicityess.com Add: No. 2, Donghua Huaye Road, Renhe Town, Baiyun Area, Guangzhou, China

Communication Guide for Felicity Battery and Victron Inverter

CAN Matched Hybrid Inverter Brands									
Brand	Note	Communication protocol	Cable Supply						
Victron	To ensure successful communication, please use this Cerbo GX box to communicate with our battery.	CAN	RJ45						

(1) The corresponding communication pins are defined in the following table. You can make communication cables according to this table.

	FelicityESS	Victron	12345678
CAN_L	Pin3	Pin8	
CAN_H	Pin4	Pin7	

(Order of Communication Cable)

(RJ45 Pin Sequence)



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Battery Side

Inverter Side

(CAN Communicate Cable Connection)

For Victron inverter, pls plug the "Inverter Side" into "VE CAN" port like below picture





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For Cerbo GX Box, pls plug the "Inverter Side" into "BMS CAN" port like below picture



(2) Set the battery DIP switch according to the table below.

Parallel DIP Switch



No. of BAT												
1 PCS	1, <mark>5 ON</mark>											
2 PCS	1,5 ON	2,5 ON										
3 PCS	1,5 ON	2 ON	1,2 ,5 ON									
4 PCS	1,5 ON	2 ON	1,2 ON	3,5 ON							Je Ni	
5 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3,5 ON					U	1 2 3 4 5	
6 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3, 5 ON				in	SW	
7 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 <mark>ON</mark>	1,2,3,5 ON					
8 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1, 2,3 ON	4,5 ON				
9 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1, 2,3 ON	4 ON	1,4,5 ON			
10 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1, 2,3 ON	4 ON	1,4 ON	2,4,5 ON		
11 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1, 2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4,5 ON	
12 PCS	1,5 ON	2 ON	1,2 ON	3 ON	1,3 ON	2,3 ON	1, 2,3 ON	4 ON	1,4 ON	2,4 ON	1,2,4 ON	3,4,5 ON

Note: The inverter needs to be connected to the first battery, that is, the battery pack with the 1,5 ON.

Note: The setting takes effect only after the battery is restarted



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(3) After successful communication, you can operate the below settings.

Device	List 03:11	< 5e	ttings 00:21
PYTES	23% 53.09V -0.4A >	GSM modem	>
MultiPlus-II 48/5000/70-50	Inverting >	GPS	>
Notifications	>	Generator start/stop	>
Settings	>	Tank pump	>
		Relay	>
SHOLD STORE STOLEN		Services	>
and the second		A Pages	∧

<	Services	00:22	<	CAN-bus profile	00:22
Modbus TCP		Disabled >	Disabled		0
MQTT on LAN (SS	L)	0	VE.Can & Lyn	x Ion BMS (250 kbit/s)	0
CAN-bus		3	VE.Can & CAN	I-bus BMS (250 kbit/s)	0
Concession of the local division of the loca			CAN-bus BMS	(500 kbit/s)	0
erment i i i			Oceanvolt (25	60 kbit/s)	0
			Ø		\oslash

(4) After above settings, you can see battery information on the Victron display

Netz	Netz PV-Wechselrichter		Geräteliste				21:42	
3W	OW	418W	MultiPlus-II 48/3000/35-32			Bulk	>	
L1: -372W L2: 102W		L1: 45W L2: 102W	Pylontech battery	96%	52.90V	-8.8A	>	
() L3. 200W		LS. 200W	SMA Solar Inverter			OW	>	
	Entladen		SMA-EM Speedwire Bridge			6.1	>	
96.			Benachrichtigungen				>	
-476W	ŗ		Einstellungen				>	
52.9V -9.0A			<u>الل</u> Seiten		≡ Mei	าน		