Inverter matching list

Revision History

Version	Revision Date	Revision Description
1.0	2025.3	Replaced with FelicitySolar's logo
2.0	2025.9	Distinguish between official cooperative testing and our own testing

We Felicity hereby authorize

High voltage battery packs are compatible with the following

brands of inverters

CAN/RS485 Matched Hybrid Inverter Brands			
Brand	Model	Communication protocol	Cable supply
Felicitysolar	T-REX-10KHP3G01 T-REX-50KHP3G01 IVGM100600 IVGM50KHP3G1 IVGM50/40/30/29.9/25KHP3G2	RS485	RJ45
Deye	SUN-(6-20)K-SG01HP3-EU-AM2 SUN-(25-50)K-SG01HP3-EU-BM2/3/4	CAN	RJ45
Solis (official)	S6-EH3P(5-10K)-H-EU S6-EH3P（12-20K）-H-EU S6-EH3P （12-20)K-ND-H	CAN	RJ45
Good we	GW (5-30)K_ET GW5/6.5/8/10KN-ET	CAN	RJ45
Megarevo (official)	R(6-15K)H3	CAN	RJ45

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Make life full of hope

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Afore	AF(3-30)K-TH AF(3-12)K-THP	CAN	RJ45
INVT (official)	iMars XD5-12KTR	CAN	RJ45
SOFAR	HYD 5-20KTL-3PH	CAN	RJ45
SUNSYNK	SUNSYNK-30K-SG01HP3-EU-BM3 SUNSYNK-50K-SG01HP3-EU-BM4	CAN	RJ45

* Felicity high-voltage battery packs are compatible with the above-mentioned inverter brands for communication:
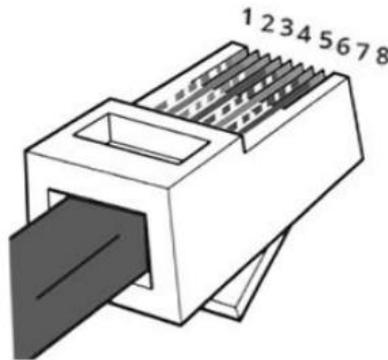
Note: Our battery is using **PYLON protocol**, in theory, our battery can communicate with inverters that support the PYLON protocol. For additional support, please contact our customer service staff.

Whatsapp:

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mail: felicitysupport@felicitysolar.com

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

(1)RS485 Protocol pins defined.

	NO.	FLS
	Pin1	GND
	Pin2	×
	Pin3	×
	Pin4	×
RS485	Pin5	RS485B
	Pin6	RS485A
	Pin7	RS485A (LUX-X-96050HG01&LUX-Y-48100HG01&FLH96050SG1&FLH48100UG1)
	Pin8	RS485B (LUX-X-96050HG01&LUX-Y-48100HG01&FLH96050SG1&FLH48100UG1)

(2)CAN Protocol pins defined.

	NO.	FLS	Solis	Deye	Megarevo	Afore	Goodwe	SOFAR	INVT	SUNSYNK
RS485	Pin1	GND	×	×	×	CAN_H	×	×	×	×
	Pin2	×	×	×	×	×	×	×	×	×
	Pin3	×	×	×	×	CAN_L	×	×	×	×
	Pin4	CAN_H（LUX-X-96050HG01&LUX-Y-48100HG01&FLH96050SG1&FLH48100UG1）	CAN_H	CAN_H	CAN_H	×	CAN_H	×	CAN_H	CAN_H
	Pin5	CAN_L（LUX-X-96050HG01&LUX-Y-48100HG01&FLH96050SG1&FLH48100UG1）	CAN_L	CAN_L	CAN_L	×	CAN_L	×	CAN_L	CAN_L
	Pin6	×	×	×	×	×	×	×	×	×
	Pin7	CAN_L	×	×	×	×	×	CAN_H	×	×
	Pin8	CAN_H	×	×	×	×	×	CAN_L	×	×

(3) **For example, if you want to let our FLH48100UG1 battery to communicate with Solis inverter directly, you need to make a communication cable like the one below.**

	NO.	Felicitysolar	Solis
CAN	Pin1	GND	×
	Pin2	×	×
	Pin3	×	×
	Pin4	CAN_H (FLH48100UG1)	CAN_H
	Pin5	CAN_L (FLH48100UG1)	CAN_L
	Pin6	×	×
	Pin7	CAN_L	×
	Pin8	CAN_H	×

(Battery side)   (Inverter side)