Approved Battery list

Version: DY-LV48-0050 **Date Issued:** 2023-07-15

Issued by: Ningbo Deye Inverter Technology Co.,Ltd

We Deye hereby authorize
these inverter models are compatible with below brand batteries

Issued by: Victor Liu
Victor Liu

PRODUCTS

SUN-3.6/5/6/7.6/8K-SG01LP1-EU, SUN-5/6/7.6/8K-SG01LP1-US, SUN-3.6/5/6K-SG03LP1-EU, SUN-3/3.6/5/6K-SG04LP1-EU, SUN-3.6/5/6/7.6/8K-SG05LP1-EU, SUN-5/6/8/10/12K-SG04LP3-EU SUN-12/14/16K-SG01LP1-EU

Battery list

Brand	Model	RS485 or CAN	Inverter Setup
BYD	BYD Battery-Box LV Flex Lite	CAN	00
Deye	SUNB-5.0-G01-48-PC SE-G5.1 PRO/AI-W5.1/RW-M6.1		
DYNESS	B4850/POWERBOXF/A48100		
UZ ENERGY	L051100-A/L051100-A1/ L051100-B/L051100-D/PLPA-L1-5K1		
AOBOET	Uhome-LFP 5000/Uhome-LFP 2400		
Alpha Ess	M4856-P/SMILE BAT		
KODAK	FL5.2		
TOPBAND	TB51100F-T110 /TB51120-T110		
Shoto	SDC-BOX5(5.12KWH)		
DOWELL	IPACK C3.3/IPACK C6.5/IPACK C10		
Giter	G2500-48V/G5040-48V		
CF Energy	CFE2400/CFE5100/CFE5100S		
Weco	4K4 LV, 5K3 LV		
PYLON	US2000B/US3000/US2000C/US3000C/ UP5000/US5000/Force L1/Force L2		

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Brand	Model	RS485 or CAN	Inverter Setup
Batterich/Greenrich	UP3686/UP5000/UP6100/WM5000	CAN	00
Hubble	AM-2 5.5KW/AM-5 51.2V 100AH		
SolarMD	SS4074/SS4037/SS202		
PYTES Energy	E-BOX 48100R		
BST	MD48-100/MD48-50		
Highstart	HSD4870		
Rosen Solar Energy	LFP48V200AH / LFP51.2V200AH		
GSL ENERGY	GSL051100A-B-GBP2/GSL051200A-B -GBP2/GSL051280A-B-GBP2/Zn-P48100ESA1/GSL-51-100/GSL-51-200		
ZRGP	ZR-FC48100-1630J1/ZR-FS4850-16OSJ1/ ZR-FS48100-16OSJ1/ZR-PBX1		
BALANCELL	P26/P27		
UFO	U-P48200-7/U-P48100-7/U-P48150-1		
GOSPOWER	U-P48200-7/U-P48100-7/U-P48150-1		
DMEGC	L01-48100/L02-48100		
Robuste	LR48100/LR48200		
Fox ess	LD-48100P		
Soluna	4K Pack/5K Pack/EOS-5K Pack		
Narada	48NPFC80/48NPFC100/ 48NPFC150/48NPFC200		
REVOV	R100		
PAND	Powerfree Rack/Powerfree Cube		
CLiS (Zhongneng Lithium Battery Technology Taizhou Co., Ltd.)	Enerhi-M Series		
LBSA	LBSA 51.2V/100AH		
Freedomwon	Freedom Lite Commercial 52V and LV Models		

Brand	Model	RS485 or CAN	Inverter Setup
GSO	GBP48	CAN	00
Sunketess	LFP5000		
Vestwoods	VT Series/VE Series		
Green Solutions Inc.	HOME E10		
nRuiT Energy	PowerPorter5.0/9.0/10.0/12.0/15.0		
COOLI	CLR5KWH/CLW5KWH/CLR10KWH /CLW10KWH/CLH10KWH/ESS10240		
Far East Battery	FEB LV Series		
VOLTA	VOLTA STAGE1/VOLTA STAGE2/ VOLTA STAGE3/VOLTA STAGE4		
LEMAX	LM-JW-51.2V100Ah/LM-JW-51.2V200Ah		
EVO	EVO 5.7KWH 48V-120AH		
Yoshopo	BB-LFP-100Ah-P		
GEN2	Gen2 P48200-7/Gen2 P48100-7 /Gen2 P48150-1		
BNP	51.2V 100Ah		
Sunwoda	H4850M/SunESS/Atrix		
APIUM	AP-5/APR-5		
LaserTec	FullSet_10/FullSet_14/FullSet_20		
MeterBoost	MB48LI82.GW/M48LI50.GW		

Brand	Model	RS485 or CAN	Inverter Setup
Ampace	R-P48100ESA1	CAN	00
Livoltek	BLF48100/BLF51-5		
Kon-TEC	KT-LFPES512100		
RENON	R-EB005160/R-XC005161/R-XL015031		
Steltec	STE-BSW-5220/STE-BSG-5220		
Delong	DL-LFP-HW51200/DL-LFP-HS51200/ DL-LFP-HS51100/DL-LFP24100 /DL-LFP51100/DL-LFP51200/DL-LFP51300		
DELONGTOP	DL-LFP-HS51100		
JINKO	JKS-B51100-GI/JKS-B51100-II /JKS-B48100-GI		
Sunova Ess	GL5100-E Serie/ Sunova solar-Bat6.1		
FM-SOLAR	LFP51200/LFP51100/HS51200-10		
Lithium Valley	LV-BAT-R/LV-BAT-W/LV-BAT-L		
Legacy	(Rack)legacy48100/48200/l51100/51200; (Wall)legacy5kw/9.6kw/10.2kw/15kw/20kw		
Moura	48MSL75		
Orbit	OE-PV3O48V/OE-SV1O48V/ OE-PV4O48V/OE-PV5O48V		
Huafon	BM512		
Eenovance	MANA 5.0 \MANA 5.3\ MANA 10.65\MANA 15.97\RT 5120 \RT 5320\ E-MATE 80\E-MATE 50		

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Brand	Model	RS485 or CAN	Inverter Setup
BSLBATT	B-LFP48 Series/ Powerline Series	CAN	00
ACE	R48100		
TAB	L5.1		
VISION Group	V-LFP51.2V100Ah-5KW/ VLFP51.2V200Ah-5KW		13
Wattsonic	Li-LV battery series	RS485	14
SACRED SUN	SSIF2P15S48100C/FCIFP48100A /SSIFP48100A		01
GenixGreen	ESS-5120/ESS-10240/ESS-BOX2/ESS-BOX3/ ESS-BOX4/ES-BOX2/ES-BOX5/ES-BOX12		06
Shanghai Green Tech Co.,Ltd.	GTEM-48V2500		12
PYLON	US2000B/US3000/US2000C/US3000C/ UP5000/US5000/Force L1/ Force L2		
ACE	R48100		
Unipower	UPI.FP4845		15
LD	LD-100P210J		17

Note:

1. Please input inverter setup number to lithium mode for corresponding battery.
2. The purchaser should confirm with the battery supplier if the battery is compatible with Deye inverter, or Deye will not be liable for any failure that caused by communication issue.

Inverter matching list

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Revision History

Version	Revision Date	Revision Description
1.0	2025.3	Added a new model compatible with our machines
2.0	2025.4	Added three new brands compatible with our machines

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We Felicity hereby authorize

Low voltage battery packs are compatible with the following brands of inverters

CAN/RS485 Matched Hybrid Inverter Brands			
Brand	Model	Communication protocol	Cable Supply
Felicitysolar/ FilicityESS	IVEM series IVGM5048/T-REX-5KLP1G01 IVGM10048/T-REX-10KLP3G01 IVGM15048 IVPS/IVPM/IVPA series	RS485	RJ45
Deye	SUN- 3 / 3.6 / 5 / 6 K-SG04LP1- EU. SUN- 3.6 / 5 / 6 K-SG03LP1-EU. SUN- 3.6 / 5 / 6 / 7.6 / 8 K SG05LP1-EU. SUN- 5 / 6 K-SG01LP1-US. SUN- 7.6 / 8 K-SG01LP1-US/EU. SUN- 5 / 6 / 8 / 10 / 12 K SG04LP3-EU. SUN-12 / 14 / 16 K-SG01LP1-EU. SUN-14/15/16/18/20K-SG05LP3-EU-SM2	RS485/CAN	RJ45
Luxpower	LXP 3.6K/4.6K/5K Hybrid LXP 3600 ACS series. LXP-LB-EU 6-8K LXP-LB-EU 8-10K LXP-LB-EU 12K	RS485/CAN	RJ45
Growatt	SPF 3500 -5000 ES SPF 6000 ES Plus	RS485/CAN	RJ45

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Voltronic	Infini Solar V IV TWIN 6/6.5/ 8kw Axpert VM III Axpert VM IV Axpert MKS III Axpert MKS IV Axpert MAX Axpert MAX II	RS485	RJ45
Sunsynk	SUNSYNK-3.6/5/8K-SG01LP1 SYNK-8/10/12K-SG04LP3 SUNSYNK MAX	RS485/CAN	RJ45
Megarevo	R(5-8)KLNA R(6-15)KH3 R(3-6)KL1	CAN/RS485	RJ45
Victron	To ensure successful communication, please use this Cerbo GX box to communicate with our battery. 	CAN	RJ45
SRNE	HF4830S60-H/HF4850S80-H HF4835U60-H/HF4850U80-H HF4850S80 -145 HF4830U60 -145/HF4835U80 -145 HES48(80-120)S200-H HES48(80-120)U200-H HES48(40-60)S200-H	RS485	RJ45
Solis	S6-EH1P(3-6)K-L-EU S6-EH1P8K-L-PRO S5-EH1P(3-6)K-L	CAN	RJ45

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MPPsolar	PIP-MT series U-GK/U-MS series PIP-MKX series PIP-MAX series PIP-MGX series PIP-MK series PIP-GK series	RS485	RJ45
Afore	AF(1-3.6)K-SL AF(3-6)K-SL	CAN	RJ45
SOFAR	HYD 3000-6000-EP	CAN	RJ45
CHISAGE ESS	MARS-5-14G2-LE MARS-5-14G1-LE JUP-5-10G2-LE	CAN	RJ45
SolaX Power	X1 hybrid LV 3-6K X1-Lite-12K-LV	CAN	RJ45
Sol-Ark	Sol-Ark 15K-2P-N Sol-Ark 12K / 8K / 5K (Outdoor) Sol-Ark 12K / 8K Legacy (Indoor)	CAN	RJ45
Hoymiles	HYS-7.6LV-USG1 HYS-9.6LV-USG1 HYS-11.5LV-USG1	CAN	RJ45
INVT	iMars XD3-6KTL	CAN	RJ45
AOHAI	AH-3-6KSL-G2	CAN	RJ45
Amensolar	N3H-X5 / 8 /10-US	CAN	RJ45

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SAJ	SAJ H1 3-6KW S2	CAN	RJ45
Solplanet	ASW H-S2 Series	CAN	RJ45
GOODWE	GW5048D-ES	CAN	RJ45

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*The following Felicity low-voltage battery packs are compatible with the above-mentioned inverter brands for communication:

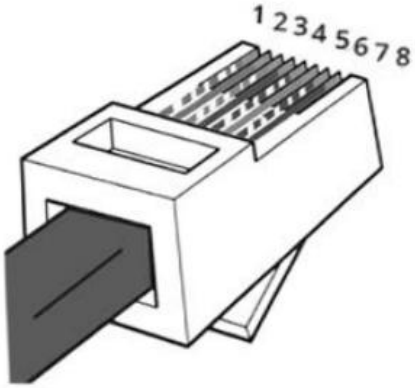
1. LPBA Series (BMS V5 Version)
2. LPBF Series (BMS V5 Version)
3. FLA Series
4. LUX Series (Low-Voltage Battery Pack)
5. FLS Series

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: +86 18022876286

E-mail: technicalsupport@felicitysolar.com

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



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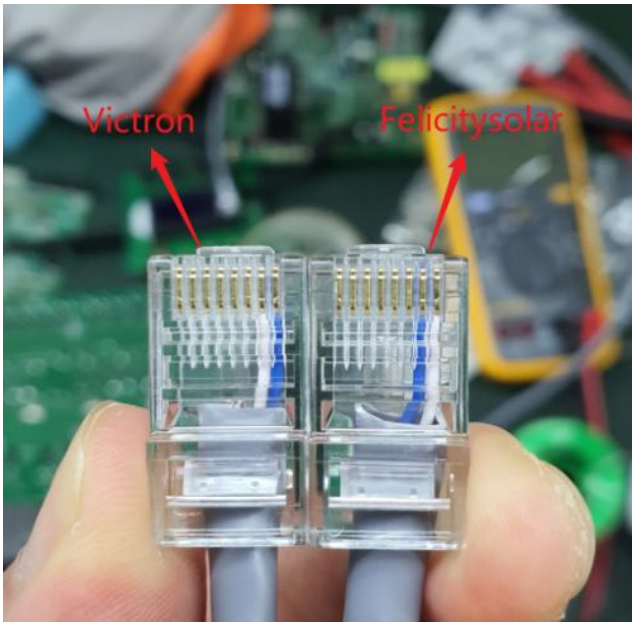
(1)RS485 Protocol pins defined.

	NO.	Felicitysolar	Deye	LuxPower	Growatt	Voltronic	MegaRevo	SRNE	Mppsolar	Sunsynk
RS485	Pin1	GND	RS485B	RS485B	RS485B	×	×	×	×	RS485-B
	Pin2	×	RS485A	RS485A	RS485A	×	×	GND	×	RS485-A
	Pin3	×	GND	×	×	RS485B	×	×	×	×
	Pin4	×	×	×	×	×	×	×	RS485-A	×
	Pin5	RS485B	×	×	×	RS485A	×	×	RS485-B	×
	Pin6	RS485A	GND	×	×	×	×	×	×	×
	Pin7	×	×	×	×	×	RS485A	RS485A	×	×
	Pin8	×	×	GND	×	GND	RS485B	RS485B	GND	×

(2)CAN Protocol pins defined.

	NO.	Felicitysolar	Victron	Solis	Deye	MegaRevo	Growatt	Afore	SOFAR	Luxpower	Sol-Ark	Hoymiles
CAN	Pin1	×	×	×	×	×	×	×	CAN_H	×	×	×
	Pin2	×	×	×	×	×	×	×	CAN_L	×	×	×
	Pin3	CAN_L	×	×	×	×	×	×	×	×	×	×
	Pin4	CAN_H	×	CAN_H	CAN_H	CAN_H	CAN_H	CAN_H	×	CAN_H	CAN_H	CAN_H
	Pin5	×	×	CAN_L	CAN_L	CAN_L	CAN_L	CAN_L	×	CAN_L	CAN_L	CAN_L
	Pin6	×	×	×	×	×	×	×	×	×	×	×
	Pin7	CAN_L (LUX-E-48100LG04)	CAN_H	×	×	×	×	×	×	×	×	×
	Pin8	CAN_H (LUX-E-48100LG04)	CAN_L	×	×	×	×	×	×	×	×	×

(3)For example, if you want to let our LPBA48100-OL battery to communicate with Victron inverter directly, you need to make a communication cable like the one below.

	NO.	Felicitysolar	Victron
CAN	Pin1	×	×
	Pin2	×	×
	Pin3	×	×
	Pin4	×	×
	Pin5	×	×
	Pin6	×	×
	Pin7	CAN_L	CAN_H
	Pin8	CAN_H	CAN_L