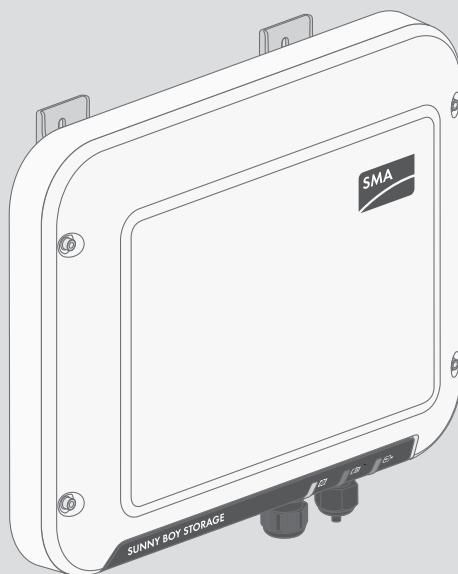


Technical Information

## SUNNY BOY STORAGE 2.5

Approved batteries and battery communication connection



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# 1 Approved Batteries

This table contains a list of batteries which are approved for the operation with the Sunny Boy Storage 2.5 (SBS2.5-1VL-10) of SMA Solar Technology AG (status: 09 / 2017):

Manufacturer	Type	Product number	Compatible as of inverter firmware version:
LG Chem	RESU10H	R15563P3SDLT	2.04.14.R
LG Chem	RESU7H	EH111063P3S3	2.04.23.R
BYD Company Limited	B-BOX H (equipped with at least - five to 8 battery modules)		2.04.23.R
Tesla Energy	Tesla Daily Powerwall	1067000-00-C	2.02.01.R

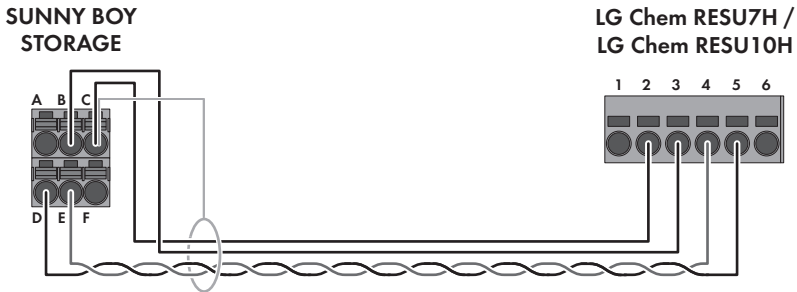
## 2 Battery Communication Connection

In this section, you will find the cabling plan for the battery communication connection between the battery inverter and the approved batteries as well as the list of cable requirements.

### Cable requirements:

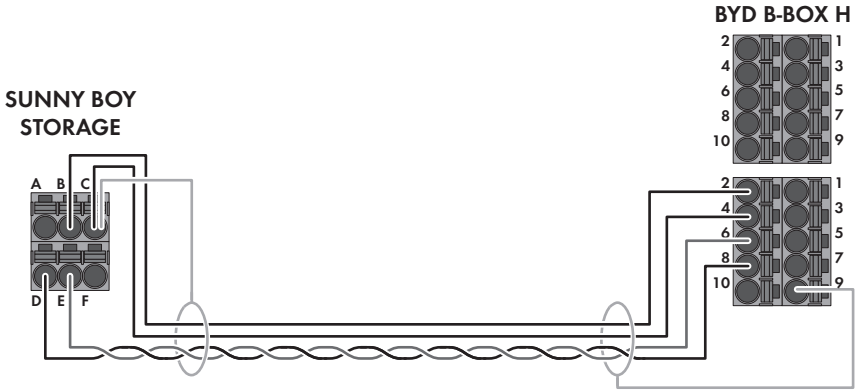
- Twisted pair conductors
- Shielding: yes
- Conductor cross-section: 0.25 mm<sup>2</sup> to 0.34 mm<sup>2</sup>
- Number of conductor pairs: 4
- Maximum cable length: 10 m
- UV-resistant for outdoor use. SMA Solar Technology AG recommends the cable "UC900 SS23 Cat.7 PE"
- Comply with the requirements of the battery manufacturer.

### Sunny Boy Storage with LG Chem RESU7H / RESU10H



Clamping position	Assignment	Clamping position	Assignment
A	Not assigned	-	-
B	Enable	3	BAT EN
C	GND and shielding	2	GND - AUX
D	CAN L (twisted pair conductors, at least CAT3)	5	CAN - L
E	CAN H (twisted pair conductors, at least CAT3)	4	CAN - H
F	Not assigned	-	-

Sunny Boy Storage with BYD B-BOX H



Clamping position	Assignment	Clamping position	Assignment
A	Not assigned	-	-
B	Enable	2	EN 11 V +
C	GND and shielding	4	EN 11 V-
C	GND and shielding	9	Shield (shielding)
D	CAN L (twisted pair conductors, at least CAT3)	8	CANL
E	CAN H (twisted pair conductors, at least CAT3)	6	CANH
F	Not assigned	-	-

