

Batteries in Sunny Island Systems

List of Approved Batteries



Die Sunny Island product family (SI3.0M, SI4.4M, SI6.0H and SI8.0H) is equipped with an integrated battery management for lead-acid batteries of type FLA and VRLA.

It is also possible to connect an external battery management that uses different battery technologies.

i Using lead-acid batteries

The battery management integrated in the Sunny Island ensures that the lead-acid battery is charged carefully, deep discharge is avoided and the state of charge of the battery is determined. Prerequisite for optimum operation of the system and, in particular, for gentle treatment of the lead-acid battery is the adjustment of the parameters of the lead-acid battery to the values of each respective application recommended by the battery manufacturer (see operation and installation manual).

i Using lithium-ion and hybrid (sodium)-ion batteries

All lithium-ion and hybrid (sodium)-ion batteries supply a defined nominal current. Please pay attention to the battery manufacturer's recommendation regarding the suitable dimensioning of the battery (battery type, circuitry and number of battery modules) in order to achieve the nominal and overload currents of the various Sunny Island system constellations and applications stated in the datasheet. The full functionality for the PV storage system can only be guaranteed if the battery capacity (battery capacity and battery currents) is matched to the Sunny Island system constellation used.

The lithium-ion batteries of the following manufacturers are approved for the SMA Flexible Storage System with the Sunny Island 3.0M / 4.4M / 6.0H / 8.0H:

	Туре		Self-consumption systems			Bat	tery	backup systems	Of	-Gri	id systems	Certification / Proof of
Manufacturer		Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	conformity according to the safety guidelines
ADS-TEC	StoraXe® Home & Small Business SRS0009		✓	-	-	1	-	-	-	-	-	Safety guidelines UNT 38.3
Akasol	neeoQube		1	† <u>-</u>	_	 	† <u>-</u>	_	T-	-	_	Not specified
	neeoRack		1	1	-	1	1	Only for Sunny Island 3.0M and 4.4M	✓	1	Only for Sunny Island 3.0M and 4.4M	Not specified
Axitec	AXITEC AXIstorage Li 7S	2.04	1	1	-	1	1	-	1	1	-	Not specified
	AXITEC AXIstorage Li 9S	2.06	1	1	-	1	1	-	1	1	-	Not specified
BMZ	BMZ ESS 3.0	2.04	1	1	_	1	1	-	1	1	-	Not specified
	BMZ ESS 7.0	2.04	1	1	_	1	1	-	1	1	-	Not specified
	BMZ ESS 9.0	2.06	1	1	-	1	1	-	T -	-	-	Not specified
BYD	B-BOX	2.7	1	1	-	1	1	-	1	1	-	Safety guidelines TÜV Süd
GNB	Sonnenschein lithium	2.06	1	1	-	1	1	-	T -	-	-	Not specified
Hoppecke	sun powerpack premium	1.1.0 r11767	1	1	-	1	1	-	1	1	-	Not specified
IBC	SolStore X.X Li	2.06	1	1	-	1	1	-	T -	-	-	Not specified
Leclanché	Apollion Cube	2.06	1	1	-	1	1	-	T -	-	-	Not specified
	TiBox 3.2		1	-	Recommended for Sunny Island 3.0M	-	-	-	-	-	-	Not specified
LG Chem	RESU 5.0		1	-	-	+-	<u> </u>	_	†-	<u> </u>	_	Not specified
	RESU 6.4 (Plus Extension Pack)		✓	-	Recommended for Sunny Island 3.0M and 4.4M	✓	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	Not specified
	RESU 3.3		1	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	-	-	-	Not specified
	RESU 6.5		1	-	Only for Sunny Island 3.0M and 4.4M	1	-	Only for Sunny Island 3.0M	-	-	-	Not specified
	RESU 10		1	-	Only for Sunny Island 3.0M and 4.4M	1	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	Not specified
	RESU Plus Extension Kit		1	-	Only for Sunny Island 3.0M and 4.4M	1	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	Not specified
Mercedes-Benz Energy GmbH	Mercedes-Benz Energiespeicher Home	29.30 - 5.X	1	-	Recommended for Sunny Island 3.0M and 4.4M	1	-	Only for Sunny Island 3.0M and 4.4M	-	-	-	Safety guidelines UNT 38.3
	Mercedes-Benz Energiespeicher Home (2.0)	10.xx	1	-	-	1	-	-	1	-	-	Not specified
Sony	Controller IJ1004C Module fORTELION IJ1001M		1	1	-	✓	1	-	✓	1	-	Not specified
Tesvolt	Tesvolt Lithium-lon storage Li 10	3.17	1	1	-	1	1	-	1	1	-	Not specified
	Tesvolt Lithium-Ion storage Li 20 and higher	1.11	✓	1	-	1	1	-	✓	1	-	Not specified
	TS-Series	1.06	✓	✓	-	1	1	-	1	1	-	Not specified

			Sel	f-con	consumption systems Battery backup systems		Off-Grid systems			Certification / Proof of		
Manufacturer	Туре	Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	to the safety guidelines
Aquion	Aspen 48S / 48M		✓	1	-	✓	✓	-	1	✓	-	Not specified
Energy*												

^{*} If services are required, contact Aquion Energy.

The lithium-ion batteries of the following manufacturers are approved for the Sunny Island 4548-US / 6048-US:

	Туре			f-cor	sumption systems	Bat	Itery	backup systems	Off	-Gri	d systems	Certification / Proof of
Manufacturer		Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	conformity according to the safety guidelines
Axitec	AXITEC AXIstorage Li 7S	2.04	1	✓	-	✓	✓	-	✓	1	-	Not specified
	AXITEC AXIstorage Li 9S	2.06	1	1	-	✓	1	-	✓	1	-	Not specified
BMZ	BMZ ESS 3.0	2.04	1	1	Always check UL compatibility with manufacturer	1	1	Always check UL compatibility with manufacturer	1	1	Always check UL compatibility with manufacturer	Not specified
	BMZ ESS 7.0	2.04	1	1	Always check UL compatibility with manufacturer	1	✓	Always check UL compatibility with manufacturer	1	1	Always check UL compatibility with manufacturer	Not specified
	BMZ ESS 9.0	2.06	1	1	Always check UL compatibility with manufacturer	1	1	Always check UL compatibility with manufacturer	-	-	Always check UL compatibility with manufacturer	Not specified
BYD	B-BOX	2.7	1	1	-	1	1	-	✓	1	-	Safety guidelines TÜV Süd
Leclanché	Apollion Cube	2.06	1	1	-	✓	1	-	-	-	-	Not specified
Tesvolt	Tesvolt lithium-ion storage	3.17	✓	✓	Always check UL compatibility with manufacturer	1	1	Always check UL compatibility with manufacturer	1	/	Always check UL compatibility with manufacturer	Not specified
	TS-Series	1.06	✓	1	-	✓	1	-	1	1	-	Not specified

The hybrid (sodium)-ion batteries of the following manufacturers are approved for the Sunny Island 4548-US / 6048-US:

			Sel	f-con	sumption systems	Battery backup systems		backup systems	Of	f-Gri	d systems	Certification / Proof of
Manufacturer	Туре	Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	conformity according to the safety guidelines
Aquion	Aspen 48S / 48M		1	1	-	1	1	-	1	1	-	Not specified
Energy*	·											·

^{*} If services are required, contact Aquion Energy.