

# 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.

	Туре		Sel	f-con	sumption systems	Bat	tery	backup systems	Of	f-Gr	id systems	Certification / Proof of
Manufacturer		Firmware			Comment			Comment			Comment	conformity according to the safety guidelines
ADS-TEC	StoraXe® Home & Small		1	-	-	1	-	-	-	-	_	Safety guidelines
	Business SRS0009											UNT 38.3
Akasol	neeoQube		1	-	-	-	-	-	-	-	_	Not specified
	neeoRack		1	1	-	1	1	Only for Sunny Island	1	1	Only for Sunny Island 3.0M and	Not specified
								3.0M and 4.4M			4.4M	
Axitec	AXITEC AXIstorage Li7S	2.04	1	1	-	1	1	-	1	1	Combustion generator mandatory	Not specified
	AXITEC AXIstorage Li9S	2.06	1	1	-	1	1	-	1	1	Combustion generator mandatory	Not specified
	AXITEC AXIstorage Li10S	2.06	1	1	-	1	1	-	1	1		
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	Combustion generator mandatory	Not specified
	BMZ ESS 9.0	2.06	-	1	-	1	1	-	1	1	Combustion generator mandatory	Not specified
	BMZ ESS X	2.06	-	1	-	1	1	-	1	1	Combustion generator mandatory	Not specified
BYD	B-BOX	2.7	-	1	-	1	1	-	1	1	- ,	Safety guidelines TÜV Süd
GNB	Sonnenschein lithium	2.06	1	1	-	1	1	-	1	1	Combustion generator mandatory	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	1	Combustion generator mandatory	Not specified
Leclanché	Apollion Cube	2.06	1	1	-	1	1	-	1	1		
LG Chem	RESU 5.0		-	-	-	-	-	-	-	-	-	Not specified
	RESU 6.4		-	-	Recommended for Sunny	1	-	Only for Sunny Island	-	-	-	Not specified
	(Plus Extension Pack)				Island 3.0M and 4.4M			3.0M and 4.4M				
	RESU 3.3		1	-	Only for Sunny Island	-	-	-	-	-	_	Not specified
					3.0M and 4.4M							
	RESU 6.5		-	-	Only for Sunny Island	1	-	Only for Sunny Island	-	-	_	Not specified
					3.0M and 4.4M			3.0M				
	RESU 10		1	-	Only for Sunny Island	1	-	Only for Sunny Island	-	-	_	Not specified
					3.0M and 4.4M			3.0M and 4.4M				
	RESU Plus Extension Kit		1	-	Only for Sunny Island	1	-	Only for Sunny Island	-	-	_	Not specified
					3.0M and 4.4M			3.0M and 4.4M				
Mercedes-Benz	Mercedes-Benz Energiespeicher	29.30 - 5.X	-	-	Recommended for Sunny	1	-	Only for Sunny Island	-	-	_	Safety guidelines
Energy GmbH	Home				Island 3.0M and 4.4M			3.0M and 4.4M				UNT 38.3
07	Mercedes-Benz Energiespeicher	10 vv	-	-			-	5.0111 4.4111	-	-		Not appointed
	Home (2.0)	10.xx	<ul><li>✓</li></ul>	-	-	-	-	-	-	-	-	Not specified
Sony	Controller IJ1004C		-	1		1	1		1	1		Not specified
Jony	Module fORTELION IJ1001M		•	•	_	•	•	-	•	•	-	I NOI Specified
SSL Energie	eSafe©	1.0.35	1	1	_	1	1	_	1	1	_	Not specified
GmbH						•	·		1	1		
Tesvolt	Tesvolt Lithium-Ion storage Li10	3.17	1	1	_	1	1	-	1	1		Not specified
	Tesvolt Lithium-Ion storage	1.11	✓	· ·	-	· ·	· /	-	✓	✓	_	Not specified
	Li 20 and higher											
	TS-Series	1.06	1	1	-	1	1	-	1	1	_	Not specified

## 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:

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# The hybrid (sodium)-ion batteries of the following manufacturers are approved for the SMA Flexible Storage System and the Sunny Island 3.0M / 4.4M / 6.0H / 8.0H:

			Sel	f-cor	sumption systems	Bat	tery	backup systems	Of	-Gri	d systems	Certification / Proof of
Manufacturer	Туре	Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	contormity according to the safety guidelines
Aquion Energy*	Aspen 485 / 48M		1	1	-	1	1	-	1	1	-	Not specified

\* 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		Se	f-con	sumption systems	Bat	tery	backup systems	Of	f-Gr	id systems	Certification / Proof of conformity according to the safety guidelines	
Manufacturer		Firmware	1~	3~	Comment	1~	3~	Comment	1 ~	3 ~	Comment		
Axitec	AXITEC AXIstorage Li7S	2.04	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>	-	<ul> <li>Image: A start of the start of</li></ul>	✓	-	<ul> <li>Image: A start of the start of</li></ul>	1	Combustion generator mandatory	Not specified	
	AXITEC AXIstorage Li9S	2.06	-	1	-	1	-	-	1	1	Combustion generator mandatory	Not specified	
	AXITEC AXIstorage Li10S	2.06	-	1	-	1	-	-	1	1	Combustion generator mandatory	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	Always check UL compatibility with manufacturer	1	1	Always check UL compatibility with manufacturer	1	1	Always check UL compatibility with manufacturer	Not specified	
											Combustion generator mandatory		
	BMZ ESS 9.0	2.06			Always check UL compatibility with	-		Always check UL compatibility with			Always check UL compatibility with manufacturer	Not specified	
					manufacturer			manufacturer			Combustion generator mandatory		
	BMZ ESS X	2.06	1	1	Always check UL compatibility with	1	1	Always check UL compatibility with	1	1	Always check UL compatibility with manufacturer	Not specified	
					manufacturer			manufacturer			Combustion generator mandatory		
BYD	B-BOX	2.7	1	1	-	1	-	-	1	1	-	Safety guidelines TÜV Süc	
Leclanché	Apollion Cube	2.06	-	-	-	1	1	-	-	-	-	Not specified	
Tesvolt	Tesvolt lithium-ion storage	3.17	1	1	Always check UL compatibility with	1	1	Always check UL compatibility with	1	1	Always check UL compatibility with manufacturer	Not specified	
					manufacturer			manufacturer					
	TS-Series	1.06	1	1	-	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:

			Self-consumption systems				tery	backup systems	Of	f-Gri	d systems	Certification / Proof of
Manufacturer	Туре	Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	contormity according to the safety guidelines
Aquion Energy*	Aspen 485 / 48M		✓	✓	-	✓	✓	-	✓	<ul> <li>✓</li> </ul>	-	Not specified

\* If services are required, contact Aquion Energy.

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