

Batteries in Sunny Island Systems

List of Approved Batteries



The 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. This 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).

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:

			Self	-cons	sumption systems	Battery backup systems					l Systems	Certification / Proof of
Manufacturer	Туре	Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	conformity according to the safety guidelines
ADS-TEC	Mini StoraXe®		1	-	-	1	-	Observe the	-	-	-	Safety guidelines
								recommendation of the				UNT 38.3
								manufacturer regarding the				
								parameter selection for				
								different Sunny Islands				
Akasol	neeoQube		1	-	-	-	-	-	-	T -	-	Not specified
	neeoRack		1	1	-	✓	1	Only for Sunny Island 3.0M and 4.4M Pay attention to the number of (battery) modules*	1	•	Only for Sunny Island 3.0M and 4.4M Pay attention to the number of (battery) modules*	Not specified
Axitec	AXITEC AXIstorage Li 7S	2.04	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	✓	✓	-	✓	✓	-	✓	✓	-	Not specified
BYD	B-BOX	2.7	✓	✓	Observe the recommendation	✓	✓	Observe the	✓	✓	Observe the	Safety guidelines
					of the manufacturer regarding			recommendation of the			recommendation of the	TÜV Süd
					the battery selection for			manufacturer regarding the			manufacturer regarding	
					different Sunny Islands			battery selection for			the battery selection for	
								different Sunny Islands			different Sunny Islands	
Deutsche	Mercedes-Benz Energiespeicher	29.30 - 5.X	✓	-	Pay attention to the number of	✓	-	Only for Sunny Island	-	-	-	Safety guidelines
ACCUmotive	Home				(battery) modules*			3.0M and 4.4MPay attention to the number of (battery)				UNT 38.3
								modules*				
GNB	Sonnenschein@home Lithium	2.04	1	1	_	/	1	-	1	1	_	Not specified
0.15	(SHL48V)		•			•			•	•		, to opening
Hoppecke	sun powerpack premium	1.1.0 r11767	1	1	-	1	1	Pay attention to the number	1	1	Pay attention to the	Not specified
								of (battery) modules*			number of (battery)	
											modules*	
IBC	SolStore X.X Li	2.04	1	1	-	1	1	-	1	1	-	Not specified
Leclanché	Apollion Cube	2.04	1	1	-	1	1	-	1	1	-	Not specified
	TiBox 3.2		1	-	Recommended for	-	-	-	-	-	-	Not specified
					Sunny Island 3.0M							

	Туре	Firmware	Self	-con	sumption systems	Batt	ery	backup systems	Off-	Gric	Systems	Certification / Proof of conformity according to the safety guidelines
Manufacturer			1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	
LG Chem	RESU 5.0		✓	-	-	-	-	-	-	-	-	Not specified
	RESU 6.4 (Plus Extension Pack)		✓	-	Recommended for	1	-	Only for Sunny Island 3.0M	-	-	-	Not specified
					Sunny Island 3.0M and 4.4M			and 4.4M				
	RESU 3.3		✓	-	Recommended for	-	-	-	-	-	-	Not specified
					Sunny Island 3.0M							
	RESU 6.5		✓	-	Recommended for	1	-	Only for Sunny Island 3.0M	-	-	-	Not specified
					Sunny Island 3.0M and 4.4M							
	RESU 10		1	-		1	-	Only for Sunny Island 3.0M	-	-	-	Not specified
								and 4.4M				
	RESU Plus Extension Kit		1	-		1	-	Only for Sunny Island 3.0M	-	-	-	Not specified
								and 4.4M				
Liacon	LV-Series		1	-	-	-	-	-	-	-	-	Not specified
SAFT	Intensium Home		1	-	-	-	-	-	-	-	_	Not specified
Schletter	eSafe©	1.0.35	1	1	Pay attention to the number of	1	1	Pay attention to the number	1	1	Pay attention to the	Not specified
					(battery) modules*			of (battery) modules*			number of (battery)	
											modules*	
Sony	Controller IJ1004C		1	1	Pay attention to the number of	1	1	Pay attention to the number	1	1	Pay attention to the	Not specified
	Module fORTELION IJ1001M				(battery) modules*			of (battery) modules*			number of (battery)	
											modules*	
Tesvolt	Tesvolt Lithium-lon storage Li10	3.17	1	1	Observe the recommendation	1	1	Observe the	1	1	Observe the	Not specified
					of the manufacturer regarding			recommendation of the			recommendation of the	
					the battery selection for			manufacturer regarding the			manufacturer regarding	
					different Sunny Islands			battery selection for			the battery selection for	
					,			different Sunny Islands			different Sunny Islands	
	Tesvolt Lithium-Ion storage	1.11	1	1	Observe the recommendation	1	1	Observe the	1	1	Observe the	Not specified
	starting at Li 20				of the manufacturer regarding			recommendation of the			recommendation of the	
					the battery selection for			manufacturer regarding the			manufacturer regarding	
					different Sunny Islands			battery selection for			the battery selection for	
					,			different Sunny Islands			different Sunny Islands	
* Note that	the battery modules have a defin	d nominal curr	ont In	orda	I	inal	 and a		 n+	l nny l	,	ust he connected in par

^{*} Note that the battery modules have a defined nominal current. In order to achieve the appropriate nominal and overload current of the different Sunny Islands, several modules must be connected in parallel. Only then is the full functionality provided.

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:

	Туре		Sel	f-cor	sumption systems	Bat	tery	oackup systems Off-Grid systems			systems	Certification /
Manufacturer		Firmware	1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	Proof of conformity according to the safety guidelines
Aquion	Aspen 48S / 48M		1	1	Observe the	1	1	Observe the	1	1	Observe the	Not specified
Energy*					recommendation of the			recommendation of the			recommendation of the	
					manufacturer regarding			manufacturer regarding			manufacturer regarding	
					the battery selection for			the battery selection for			the battery selection for	
					different Sunny Islands			different Sunny Islands			different Sunny Islands	

^{*} 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	Firmware	Self-consumption systems			Battery backup systems				-Grie	d systems	Certification /
Manufacturer			1~	3~	Comment	1~	3-	Comment	1~	3~	Comment	Proof of conformity according to the safety guidelines
BMZ	BMZ ESS 3.0	2.04	1	✓	Always check UL compatibility with manufacturer	1	'	Always check UL compatibility with manufacturer	✓	1	Always check UL compatibility with manufacturer	Not specified
	BMZ ESS 7.0	2.04	1	•	Always check UL compatibility with manufacturer	1	•	Always check UL compatibility with manufacturer	✓	1	Always check UL compatibility with manufacturer	Not specified
BYD	B-BOX	2.7	•	•	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	•	1	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	•	1	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands	Safety guidelines TÜV Süd
Tesvolt	Tesvolt lithium-ion storage	3.17	1	•	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands Always check UL compatibility with manufacturer	•	•	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands Always check UL compatibility with manufacturer	•	•	Observe the recommendation of the manufacturer regarding the battery selection for different Sunny Islands Always check UL compatibility with manufacturer	Not specified

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

	Туре	Firmware	Self-consumption systems				Battery backup systems				l systems	Certification /
Manufacturer			1~	3~	Comment	1~	3~	Comment	1~	3~	Comment	Proof of conformity according to the safety guidelines
Aquion	Aspen 48S / 48M		1	1	Observe the	✓	1	Observe the	1	1	Observe the	Not specified
Energy*					recommendation of the			recommendation of the			recommendation of the	
					manufacturer regarding			manufacturer regarding			manufacturer regarding	
					the battery selection for			the battery selection for			the battery selection for	
					different Sunny Islands			different Sunny Islands			different Sunny Islands	

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