



A full line of vented and sealed light traction batteries

SLT and SLT GEL batteries are suitable for all applications in semitraction, from cleaning machines to hand pallet trucks, as well as golf cars and other electric vehicles.

 Long Cycle Life

 Outstanding Performance

 Ease of Handling

The ideal energy solution for light traction applications



SLT
Vented Tubular Plate Batteries



SLT GEL
Sealed GEL Batteries

SLT Vented Technology Batteries with liquid electrolyte and tubular plate technology are characterized by robust design with powerful tubular plates and a special alloy that offers long service life and high cyclical resistance of more than 1200 cycles (60% DoD, 20°C).

SLT GEL Batteries are sealed, valve regulated lead batteries containing GEL electrolyte. These batteries are characterized by their robustness, versatility of application and maintenance free design. Other advantages include long service life and a high level of cyclical resistance.



 Battery driven electrical vehicles



 Cleaning Machines



 Mobility for people with disabilities













 Mobile lifting platforms

 Marine

Manufactured at European production facilities, certified with ISO 9001, ISO 14001

Sunlight SLT Vented Tubular Plate Batteries

	DIN BCI Group Size			GC2 BCI Group Size	
					
Type	SLT 6-180	SLT 6-195	SLT 6-205	SLT 6-185	SLT 6-200
Voltage (V)	6	6	6	6	6
Length (mm)	242	242	242	260	260
Width (mm)	190	190	190	180	180
Height* (mm)	275	275	275	275	275
Weight (kg)	30.3	31.6	31.7	29.9	32.5
Number of batteries per europallet	57	57	57	48	48
					
Type	SLT 12-56	SLT 12-72	SLT 12-75	SLT 12-80	SLT 12-85
Voltage (V)	12	12	12	12	12
Length (mm)	265	352	308	352	308
Width (mm)	175	175	174	174	175
Height* (mm)	210	190	220	215	225
Weight (kg)	19.9	24.7	25.7	28.0	27.2
Number of batteries per europallet	48	48	56	48	56

*includes poles

Capacity (Ah at 20°C)

	SLT 6-180	SLT 6-195	SLT 6-205	SLT 6-185	SLT 6-200	SLT 6-265	SLT 6-320	SLT 8-160	SLT 12-36 (SS)	SLT 12-36
C20 1.80 Vpc	240	260	270	240	260	350	425	210	50	50
C5 1.75 Vpc	180	195	205	185	200	265	320	160	36	36
C2 1.70 Vpc	140	152	160	144	156	207	250	125	28	28

Design

Positive plates: Tubular plates with optimized anticorrosion characteristics due to the use of special low antimony lead alloy. Tubes filled by injection with active material (mixture of lead oxide and red lead).

Negative plates: Plates composed of reinforced grids design pasted with optimized lead alloy.

Separators: High-porosity separators with minimal internal resistance. Secured insulation between positive and negative plates.













Electrolyte: Optimized electrolyte density (acid-water), for proper ionic exchange.

Container, lid material: Corrosion-resistant polypropylene material. Lids completely heat sealed.

Terminals: Automotive Post type. On the same side for 12V blocks and diagonally for 6V blocks.

Valves: Filler caps with vent valves for proper battery ventilation.

Sunlight SLT Vented Tubular Plate Batteries

	902 BCI Group Size		GC8 BCI Group Size			
						
Type	SLT 6-265	SLT 6-320	SLT 8-160	SLT 12-36 (SS)	SLT 12-36	SLT 12-54
Voltage (V)	6	6	8	12	12	12
Length (mm)	305	305	260	205	240	278
Width (mm)	180	180	180	175	175	175
Height* (mm)	365	365	275	190	190	190
Weight (kg)	47.9	50.5	32.8	13.9	15.3	19.3
Number of batteries per europallet	28	28	48	96	76	64
						
Type	SLT 12-90	SLT 12-118	SLT 12-126	SLT 12-150	SLT 12-160	SLT 12-180
Voltage (V)	12	12	12	12	12	12
Length (mm)	345	345	510	510	513	517
Width (mm)	170	170	175	222	218	270
Height* (mm)	235	285	225	225	215	240
Weight (kg)	28.4	38.4	39.6	47.3	55.1	64.0
Number of batteries per europallet	36	36	32	28	28	18

	SLT 12-54	SLT 12-56	SLT 12-72	SLT 12-75	SLT 12-80	SLT 12-85	SLT 12-90	SLT 12-118	SLT 12-126	SLT 12-150	SLT 12-160	SLT 12-180
C20 1.80 Vpc	72	75	96	95	105	110	120	157	167	200	210	240
C5 1.75 Vpc	54	56	72	75	80	85	90	118	126	150	160	180
C2 1.70 Vpc	42	44	56	58	62	66	70	92	98	117	125	140

Operation

Number of cycles: 1200 cycles (@60% DoD, 20°C)

Maintenance: Low water topping up requirements.

Operating temperature: Min: -20°C / Max: 45°C. Recommended 15°C to 35°C.






Self discharge rate: Approx. 2% per month at 20°C.

Storage Time: Maximum shelf life up to 5 months at 20°C, 4 months at 30°C or 2 months at 40°C.

Recommended Charging Voltage: 2.25 to 2.30 V/cell (stand-by use at 20°C), 2.35 to 2.45 V/cell (cycle use at 20°C).

Battery charging: An initial ampere charge of 12 to 16% of the stated capacity for 5 hours of operation.

Sunlight SLT GEL Sealed GEL Batteries

	DIN BCI Group Size	902 BCI Group Size			
					
Type	SLT GEL 6-180	SLT GEL 6-250	SLT GEL 12-32	SLT GEL 12-42	SLT GEL 12-52
Voltage (V)	6	6	12	12	12
Length (mm)	244	305	205	240	278
Width (mm)	192	180	175	175	175
Height* (mm)	275	365	190	190	190
Weight (kg)	34.1	54.3	15.7	19.9	22.5
Number of batteries per europallet	36	15	72	57	48

*includes poles

Capacity (Ah at 20°C)

	SLT GEL 6-180	SLT GEL 6-250	SLT GEL 12-32	SLT GEL 12-42	SLT GEL 12-52
C20 1.80 Vpc	240	335	44	57	70
C5 1.75 Vpc	180	250	32	42	52
C2 1.70 Vpc	140	195	25	33	41

Design

Positive plates: Flat plates with lead calcium tin grid.

Negative plates: Plates of reinforced grids design pasted with optimized lead alloy.

Separators: High-porosity separators with minimal internal resistance. Secured insulation between positive and negative plates. Free flow of electrolyte throughout the cell.

Electrolyte: Sulphuric acid immobilised as GEL.

Container, lid material: Corrosion-resistant polypropylene material. Lids completely heat sealed.

Terminals: Automotive Post type. On the same side for 12V blocks and diagonally for 6V blocks.

Pressure relief valve: One way valve with flame arrestor.

Operation

Number of cycles: 600 cycles (@60% DoD, 20°C).

Maintenance: Maintenance-free design without water topping-up needs.

Operating temperature: Min: -20°C / Max: 45°C. Recommended 15°C to 35°C.

Self discharge rate: Approx. 2% per month at 20°C.

Storage Time: Maximum shelf life up to 6 months at 20°C, 4 months at 30°C or 2 months at 40°C.

Recommended Charging Voltage: 2.25 to 2.30 V/cell (stand-by use at 20°C), 2.35 to 2.45 V/cell (cycle use at 20°C).

Battery charging: An initial ampere charge of 12 to 16% of the stated capacity for 5 hours of operation.

Sunlight SLT GEL Sealed GEL Batteries

					
SLT GEL 12-63	SLT GEL 12-65	SLT GEL 12-85	SLT GEL 12-105	SLT GEL 12-137	SLT GEL 12-165
12	12	12	12	12	12
352	308	345	345	513	517
175	175	170	170	218	270
190	225	235	285	215	240
28.3	29.0	35.1	42.7	60.5	71.0
36	30	24	24	14	12

SLT GEL 12-63	SLT GEL 12-65	SLT GEL 12-85	SLT GEL 12-105	SLT GEL 12-137	SLT GEL 12-165
84	86	100	140	170	200
63	65	85	105	137	165
49	51	67	82	107	129

Storage / Installation / Maintenance

Storage: Batteries should be stored in dry areas, protected from direct sunlight and, if possible, not subject to considerable temperature changes. Despite a minimal self-discharge effect, charged batteries should better not be stored for long periods of time. If batteries are stored for a few months, before installing them, check their charge level and recharge them if the charge level is below 70%.

Installation: Batteries should be installed following the instructions given by the manufacturers of the vehicle/system and the given polarity should be respected. Great care is recommended with connections to prevent short circuits.

Maintenance (applicable only for SLT batteries): Batteries should be kept clean and dry with a slightly damp cloth. Do not use any organic solution. Avoid operating batteries until completely discharged and leaving them discharged for long periods of time. During normal battery operation, the water in the solution gradually evaporates. Regular topping up with demineralised water is required.

Pour water through the filler caps up to a constant level in each element or cell. Topping up is always recommended after a full recharge cycle. The level of electrolyte should always cover the internal plates to prevent sulphation, this level, however, should never be exceeded.

Any solution overflow, which usually occurs during recharging, may involve electrolyte density loss and therefore lead to capacity drop. SLT batteries are characterised by low water consumption. For daily use, however, solution level check and topping up, if necessary, are recommended every 15 days. Regular maintenance of the SLT batteries ensures constant levels of performance and many years of operation.

Sunlight Group Energy Storage Systems is a world-leading technology company and provider of integrated and innovative energy storage solutions, with over 30 years of knowledge and experience. It exports to over 100 countries and operates state-of-the-art industrial units in Greece, Italy, and USA. Sunlight's clear vision and forward-facing strategy are driven and underpinned by a commitment to technological innovation and passion for excellence that supports sustainability and transition to a carbon-free future.

SUNLIGHT
POWER IS KNOWLEDGE



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