ENERPOWER

SLC SERIES
GENERAL PURPOSE BATTERIES

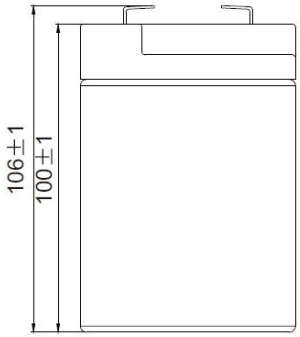
DATASHEET

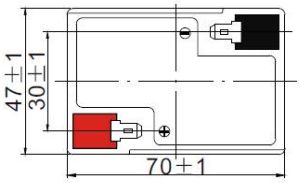
SLC 4,5-6

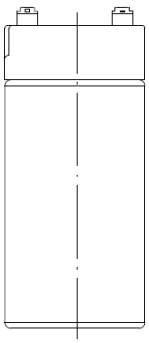
6V 4,5AH

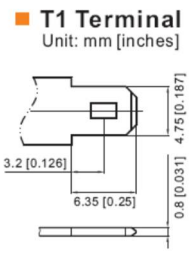
AGM SEALED VRLA BATTERY

5-6 YEARS OF EXPECTED LIFETIME (EUROBAT)





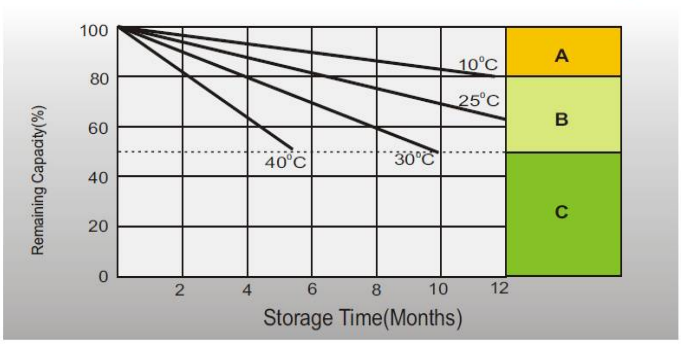




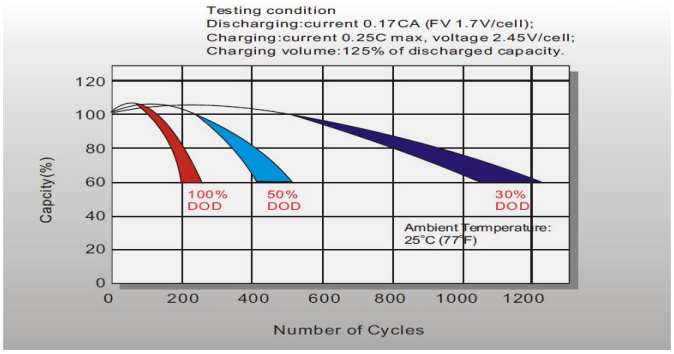
SPECIFICATIONS

Nominal Voltage	6V	
Nominal Capacity	4,5Ah	
Terminal	T1	
Approx. Weight	Approx 0,81 kg (1,79 lbs)	
Container Material	ABS	
Dimensions	Length Width Container Height Total Height (with terminal)	70±1 mm (2,76 inches) 47±1 mm (1,85 inches) 100±2 mm (3,94 inches) 106±2 mm (4,17 inches)
Rated Capacity	4,5 Ah / 0,225A 4,19 Ah / 0,419A 3,78 Ah / 0,756A 3,3 Ah / 1,1A 2,73 Ah / 2,73A	(20 hr, 1,80 V/cell, 25°C/77°F) (10 hr, 1,80 V/cell, 25°C/77°F) (5 hr, 1,75 V/cell, 25°C/77°F) (3 hr, 1,75 V/cell, 25°C/77°F) (1 hr, 1,60 V/cell, 25°C/77°F)
Max. Discharge Current	67,5 A (5 s)	
Internal Resistance	Approx 40,0 mΩ	
Operating Temperature	Discharge : -15÷50°C (5÷122°F) Charge : 0÷40°C (32÷104°F) Storage : -15÷40°C (5÷104°FR)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 1,35 A Voltage 14,4÷15,0V at 25°C (77°F)Temperature Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13,5÷13,8 V at 25°C (77°F) Temperature Coefficient - 20mV/°C	
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%	
Self discharge	Enerpower SLC series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

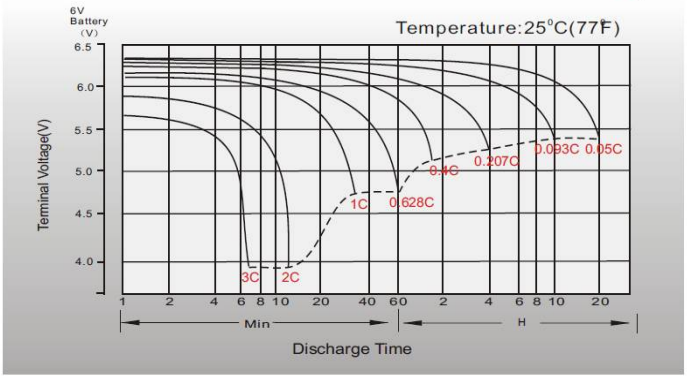
Self Discharge Characteristics



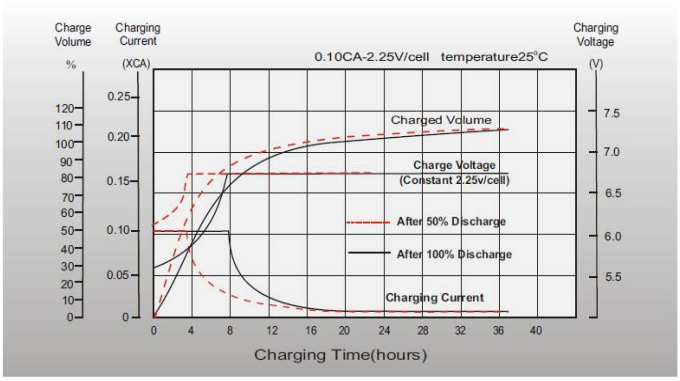
Cycle Life in Relation to Depth of Discharge



Discharge Characteristics



Float Charging Characteristics



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V / Time	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1,85V / cell	6,02	4,97	4,31	3,46	2,66	2,17	1,33	1,01	0,83	0,71	0,61	0,486	0,404	0,233
1,80V / cell	7,19	5,76	4,87	3,83	2,90	2,34	1,41	1,06	0,87	0,74	0,64	0,504	0,419	0,225
1,75V / cell	8,13	6,35	5,31	4,09	3,08	2,46	1,47	1,10	0,90	0,76	0,65	0,518	0,427	0,227
1,70V / cell	8,96	6,88	5,70	4,29	3,20	2,57	1,53	1,14	0,92	0,78	0,67	0,525	0,434	0,231
1,67V / cell	9,30	7,08	5,84	4,38	3,26	2,62	1,56	1,16	0,93	0,77	0,68	0,530	0,437	0,233
1,65V / cell	9,64	7,27	5,98	4,47	3,32	2,67	1,58	1,17	0,94	0,76	0,68	0,534	0,440	0,234
1,60V / cell	10,00	7,58	6,17	4,60	3,40	2,73	1,63	1,19	0,97	0,81	0,70	0,545	0,447	0,236

Constant Power Discharge (Watts) at 25°C (77°F)

F.V / Time	10 min	15 min	20 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1,85V / cell	11,50	9,55	8,35	6,74	5,21	4,28	2,63	2,01	1,66	1,41	1,23	0,98	0,82	0,45
1,80V / cell	13,60	11,00	9,37	7,41	5,65	4,58	2,78	2,10	1,73	1,46	1,27	1,01	0,84	0,45
1,75V / cell	15,20	12,00	10,10	7,86	5,96	4,80	2,88	2,16	1,78	1,49	1,30	1,03	0,85	0,45
1,70V / cell	16,60	12,90	10,80	8,20	6,16	4,97	2,98	2,22	1,81	1,52	1,32	1,04	0,86	0,46
1,65V / cell	17,60	13,40	11,20	8,48	6,36	5,15	3,05	2,27	1,84	1,55	1,34	1,05	0,87	0,46
1,60V / cell	18,10	13,90	11,40	8,62	6,44	5,22	3,13	2,31	1,87	1,57	1,36	1,07	0,88	0,46

ENERPOWER S.R.L.
UFFICI e DEPOSITO: Via Boccioni, 7 - 20900 MONZA (MB)
Tel. +39 (039)-832152 Fax +39 (039)-2230441 E-mail : info@enerpowersrl.com – https://www.enerpowersrl.com