

DATASHEET

SLC 4,5-6

6 V 4,5 AH



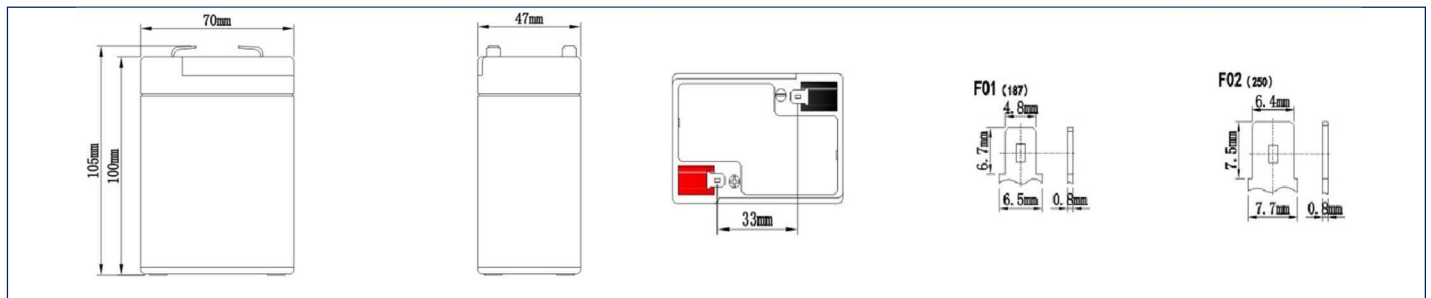
AGM SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 5-6 Years

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±2mm				Weight ±2%	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
6V	4,5AH	70mm	47mm	100mm	105mm	0.74kg	67.5A	≈18 mΩ	T1	ABS



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (0.225A)	4.56AH
10 hour rate (0.45A)	4.28AH
5 hour rate (0.76A)	3.70AH
27 min rate (4.5A)	2.03AH
7 min rate (13.5A)	1.58AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

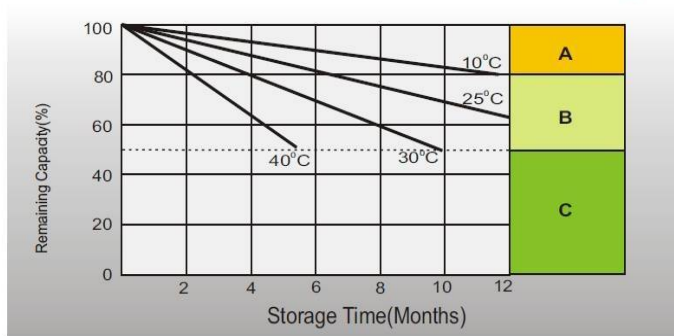
Nominal Operating Temp. Range
25±3°C (77±5°F)

Cycle Application
1. Limit initial current less than 1.125A.
2. Charge until battery voltage (under charge) reaches 7.05V to 7.20V at 25°C(77°F).
3. Hold at 7.05V to 7.20V until current drop to under 0.027A for at least 3 hrs.
4. Temperature compensation coefficient of charging voltage is -15mV/°C.
Standby Service
1. Hold battery across constant voltage source of 6.8 to 6.9 volts with current limit 1.125A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -9mV/°C.

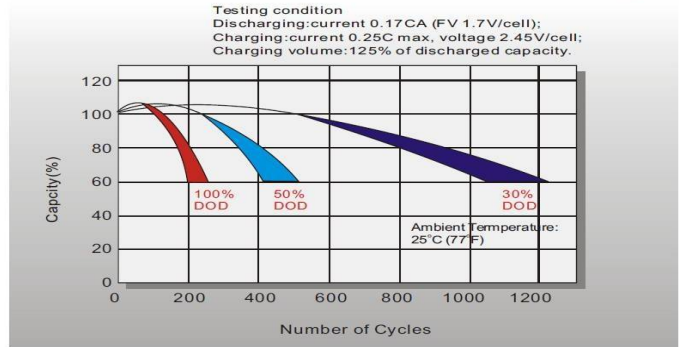
Operating Temperature		
Discharge: -15÷50°C	Charge: 0÷40°C	Storage: -15÷40°C

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

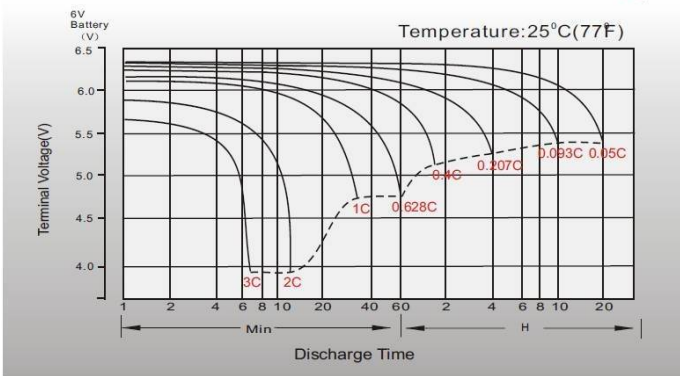
Self Discharge Characteristics



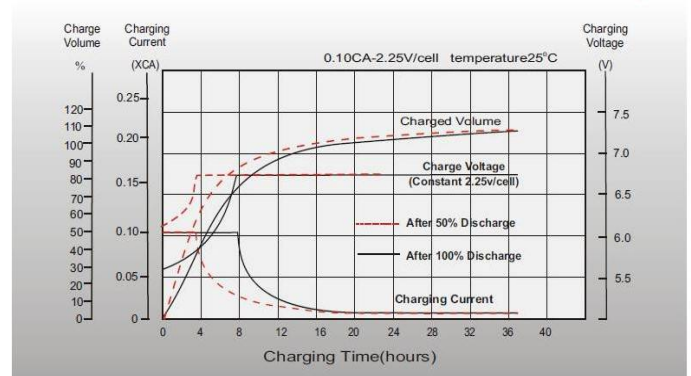
Cycle Life in Relation to Depth of Discharge



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	9,64	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
1,65V / 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
1,60V / 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

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
1,67V / 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
1,65V / 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
1,60V / 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



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>