



## S7,2

7.2 Ah | 12 V | 20 h

### Specifications

Voltage	12 V
Nominal Capacity	7.2 Ah @ 20 hour-rate
Number of Cells	6
Internal Resistance	Approx. 32 mΩ
Design Life	6 to 8 years (float charging)
Short Circuit Current	350 A
Self Discharge	Monthly rate < 3% @ 25 °C Recharge after 6 months Charge before using

### Charging & Discharging

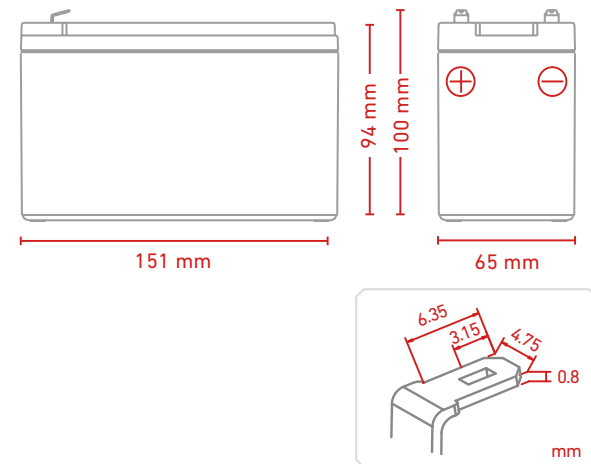
Max. Charging Current	2.1 A
Max. Discharge Current	70 A (5 sec)
Standby Use Voltage	13.7 V to 13.9 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V to 14.8 V @ 25 °C Temperature Compensation: -4mV/°C/Cell
Reference Capacity	C3 5.4 Ah C5 6.1 Ah C10 6.6 Ah C20 7.2 Ah

### Temperature Ranges

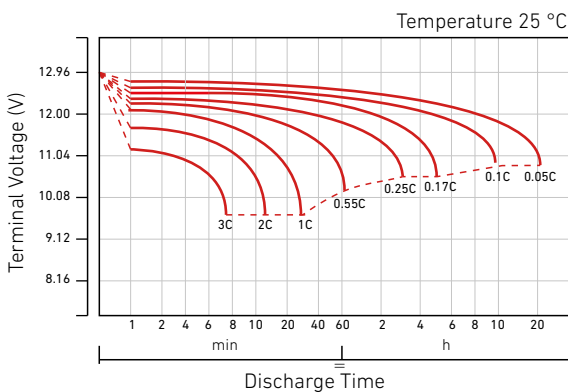
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	0 °C to 50 °C
Storage	-20 °C to 60 °C

### Mechanical Specifications

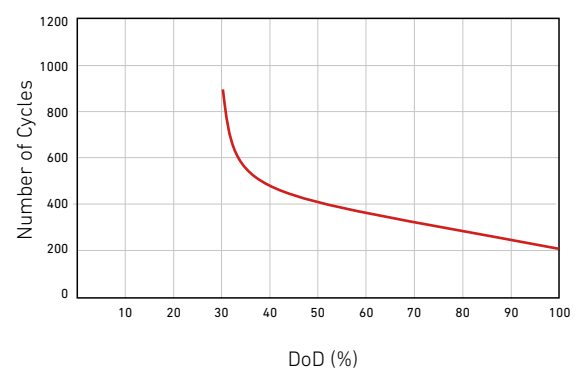
Measurements (L x W x H)	151 x 65 x 94 mm
Weight	Approx. 2.08 kg
Terminals	F1
Case material	A.B.S. UL94-HB, UL94-V0 Optional



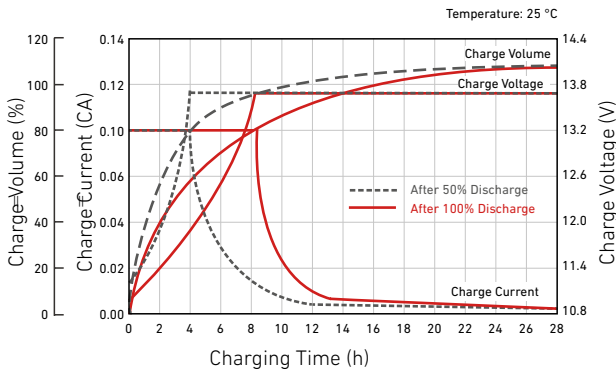
### Discharge Characteristics Curve



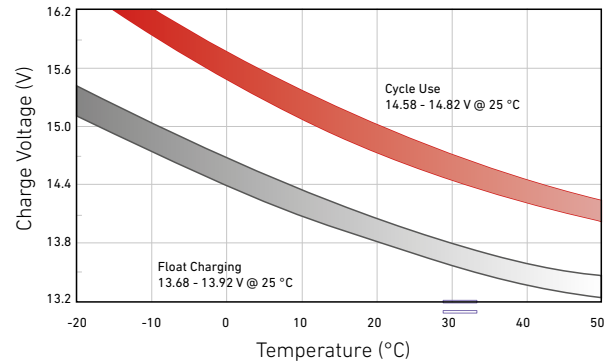
### Cycle Life in Relation to Depth of Discharge



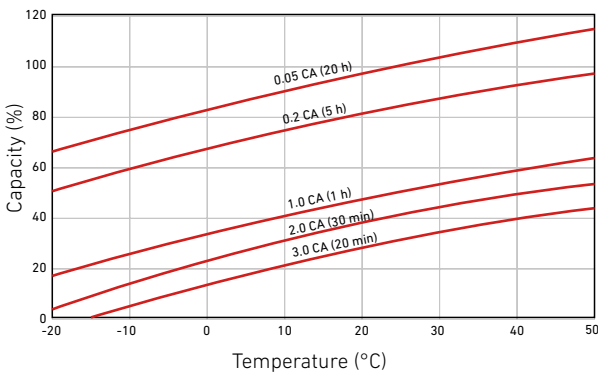
**Discharge Characteristics Curve For Standby Use**



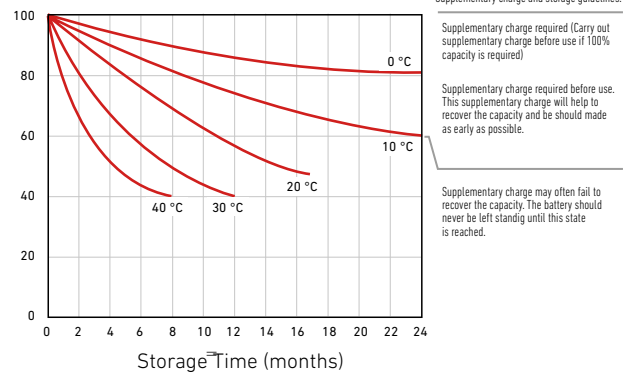
**Relationship Between Charging Voltage and Temperature**



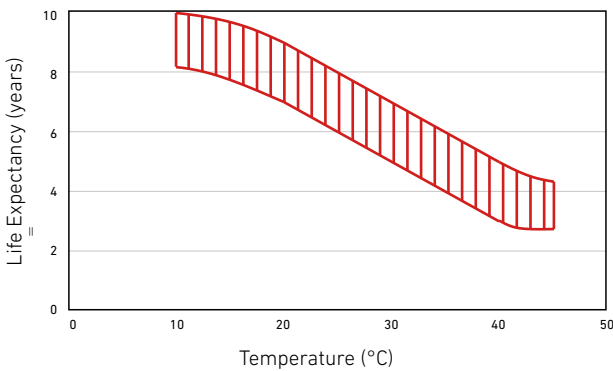
**Temperature Effects on Capacity**



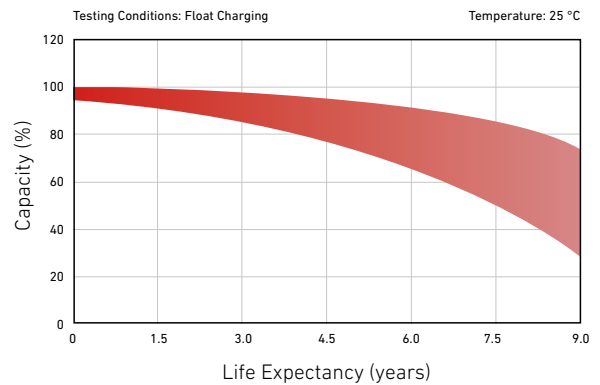
**Storage Characteristics**



**Effect of Temperature on Long-Term Life**



**Life Characteristics of Standby Use**



**Constant Current Discharge Characteristics: A (25 °C)**

F.V	Time											
	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	28,55	18,62	13,73	7,948	4,593	2,710	1,970	1,569	1,324	0,885	0,721	0,375
1.65 V	27,52	18,06	13,37	7,774	4,508	2,670	1,944	1,549	1,309	0,876	0,714	0,372
1.70 V	26,17	17,33	12,90	7,543	4,395	2,617	1,909	1,523	1,288	0,864	0,705	0,368
1.75 V	24,45	16,39	12,29	7,241	4,247	2,548	1,863	1,489	1,261	0,848	0,693	0,363
1.80 V	22,28	15,19	11,49	6,850	4,053	2,456	1,802	1,443	1,226	0,827	0,676	0,355
1.85 V	19,60	13,69	10,49	6,350	3,804	2,336	1,722	1,384	1,179	0,799	0,655	0,346

**Constant Power Discharge Characteristics: WPC (25 °C)**

F.V	Time											
	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60 V	49,13	32,12	24,37	14,65	8,72	5,21	3,82	3,06	2,59	1,75	1,44	0,75
1.65 V	48,62	31,99	24,23	14,55	8,64	5,17	3,79	3,03	2,57	1,74	1,43	0,74
1.70 V	46,76	31,04	23,58	14,19	8,46	5,09	3,73	2,99	2,54	1,72	1,41	0,74
1.75 V	44,47	29,89	22,78	13,77	8,21	4,97	3,66	2,93	2,49	1,69	1,39	0,73
1.80 V	41,22	28,18	21,61	13,15	7,88	4,82	3,55	2,85	2,43	1,65	1,36	0,71
1.85 V	36,92	25,84	20,01	12,31	7,45	4,61	3,41	2,75	2,35	1,60	1,32	0,70