



S36W

9 Ah | 12 V | 20 h

Specifications

Voltage	12 V
Nominal Capacity	XX Ah @ 20 hour-rate
Number of Cells	6
Internal Resistance	Approx. 20 mΩ
Design Life	up to 8 years (float charging)
Short Circuit Current	450 A
Self Discharge	Monthly rate < 3% @ 25 °C Recharge after 6 months Charge before using

Charging & Discharging

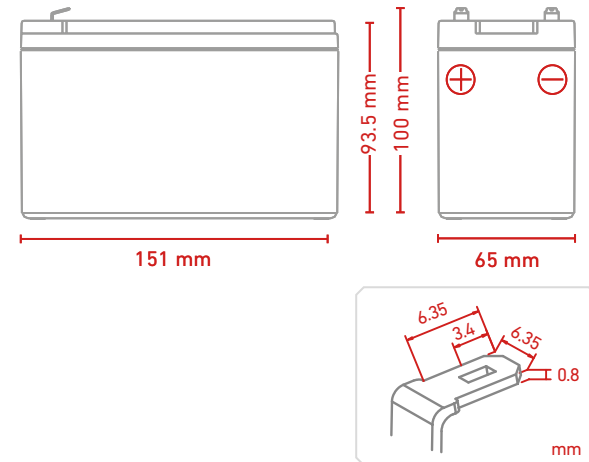
Max. Charging Current	2.7 A
Max. Discharge Current	90 A (5 sec)
Standby Use Voltage	13.7 V to 13.9 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V to 14.8 V @ 25 °C Temperature Compensation: -4mV/°C/Cell
Reference Capacity	C10 8.5 Ah C20 9 Ah

Temperature Ranges

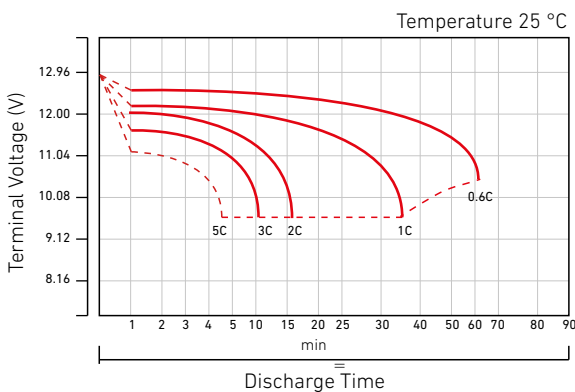
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	0 °C to 50 °C
Storage	-20 °C to 60 °C

Mechanical Specifications

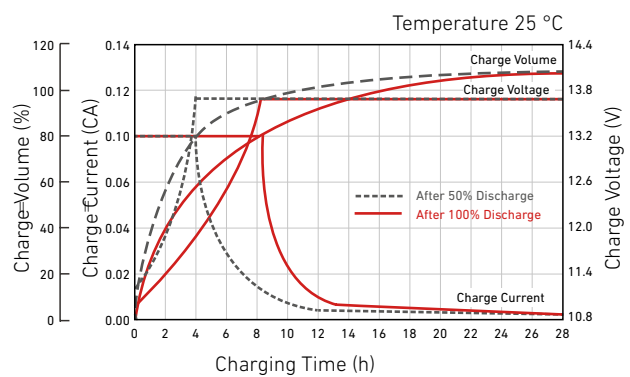
Measurements (L x W x H)	151 x 65 x 93.5 mm
Weight	Approx. 2.6 kg
Terminals	F2
Case material	A.B.S. UL94-HB, UL94-V0 Optional



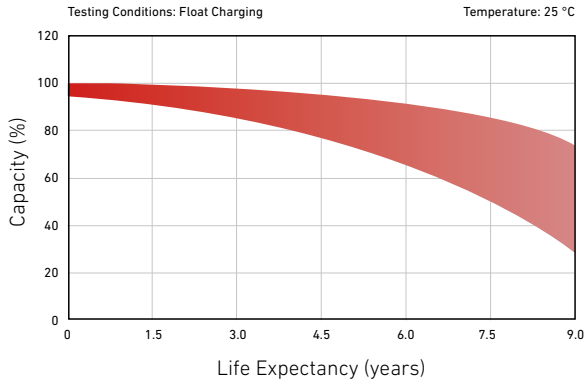
Discharge Characteristics Curve



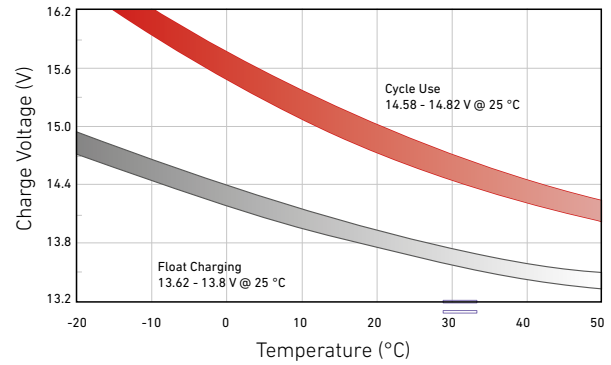
Discharge Characteristics Curve For Standby Use



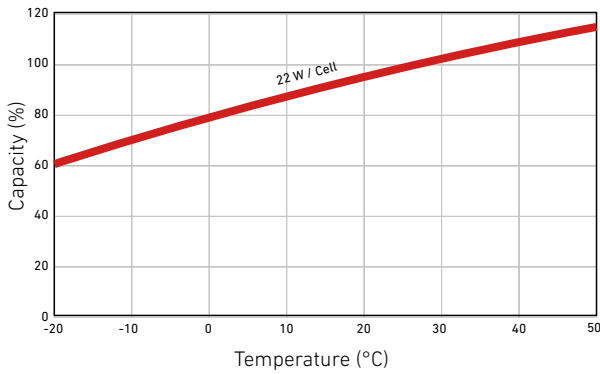
Life Characteristics of Standby Use



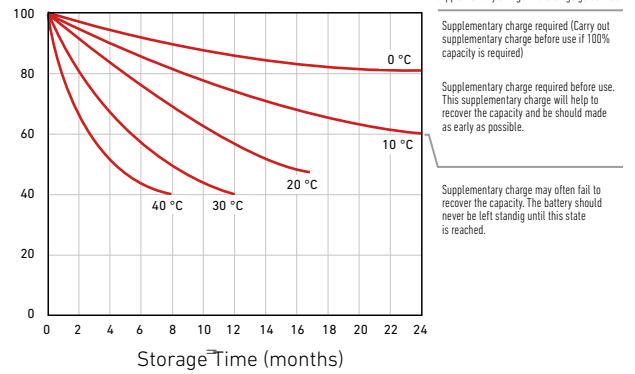
Relationship Between Charging Voltage and Temperature



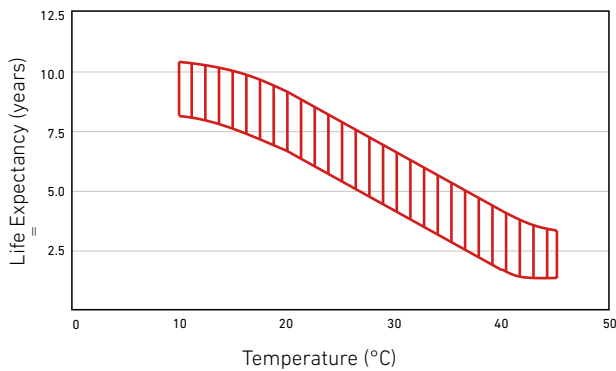
Temperature Effects on Capacity



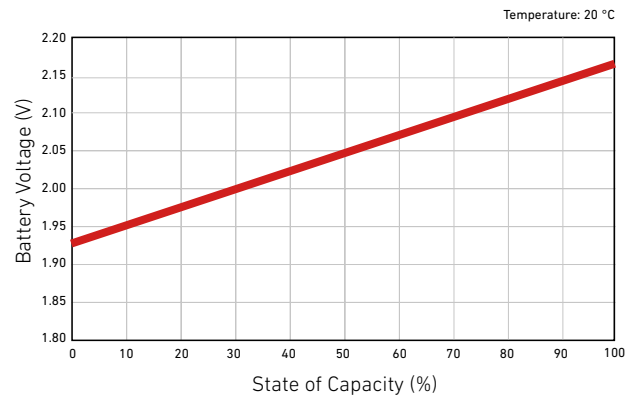
Storage Characteristics



Effect of Temperature on Long-Term Life



Relationship of OCV and State of Charge



Constant Current Discharge Characteristics: A (25 °C)

F.V	Time								
	3 min	5 min	8 min	10 min	15 min	20 min	30 min	60 min	90 min
1.60 V	46,9	41,26	32,97	28,26	20,85	16,39	11,68	6,55	4,64
1.65 V	42,6	37,44	30,15	26,05	19,50	15,47	11,06	6,24	4,44
1.70 V	40,8	35,83	28,95	25,11	18,90	15,06	10,79	6,10	4,36
1.75 V	37,8	33,19	26,97	23,53	17,85	14,30	10,34	5,90	4,23
1.80 V	34,6	30,40	24,93	21,95	16,95	13,63	9,89	5,68	4,08
1.85 V	29,6	25,99	21,24	18,63	14,54	11,84	8,75	5,13	3,73

Constant Power Discharge Characteristics: WPC (25 °C)

F.V	Time								
	3 min	5 min	8 min	10 min	15 min	20 min	30 min	60 min	90 min
1.60 V	84,4	74,2	59,46	51,16	38,10	30,17	21,58	12,28	8,79
1.65 V	77,5	68,1	55,11	47,84	36,00	28,79	20,78	11,82	8,49
1.70 V	74,8	65,8	53,34	46,42	35,25	28,18	20,29	11,63	8,36
1.75 V	70,0	61,5	50,25	44,05	33,60	27,11	19,65	11,31	8,14
1.80 V	65,0	57,1	47,01	41,53	32,10	26,04	19,00	10,98	7,92
1.85 V	56,5	49,6	40,62	35,68	27,90	22,82	16,91	9,99	7,28