



S43

43 Ah | 12 V | 20 h

Specifications

Voltage	12 V
Nominal Capacity	43 Ah @ 20 hour-rate
Number of Cells	6
Internal Resistance	Approx. 8.0 mΩ
Design Life	12 years (float charging)
Short Circuit Current	920 A
Self Discharge	Monthly rate < 3% @ 25 °C Recharge after 6 months Charge before using

Charging & Discharging

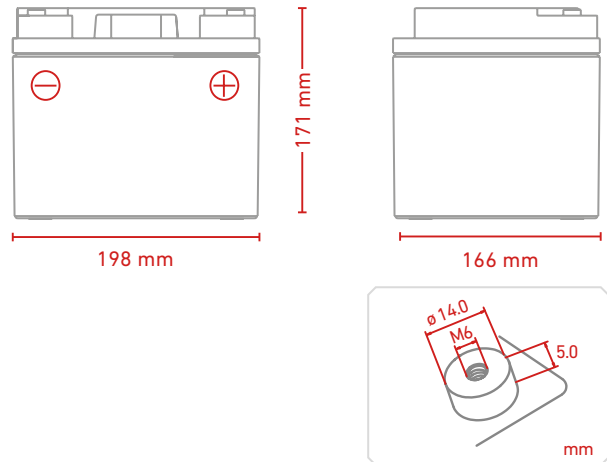
Max. Charging Current	12.0 A
Max. Discharge Current	400 A (5 sec)
Standby Use Voltage	13.6 V to 13.8 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V to 14.8 V @ 25 °C Temperature Compensation: -4mV/°C/Cell
Reference Capacity	C3 31 Ah C5 35 Ah C10 40 Ah C20 43 Ah

Temperature Ranges

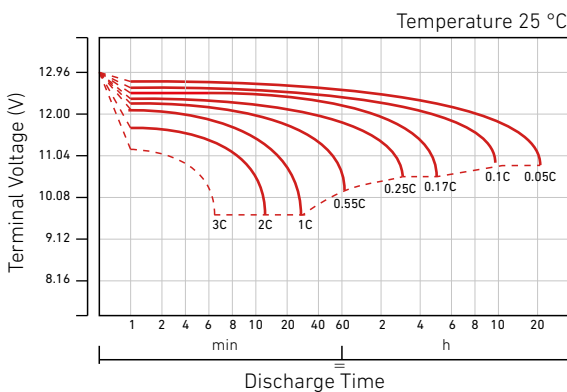
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	0 °C to 50 °C
Storage	-20 °C to 60 °C

Mechanical Specifications

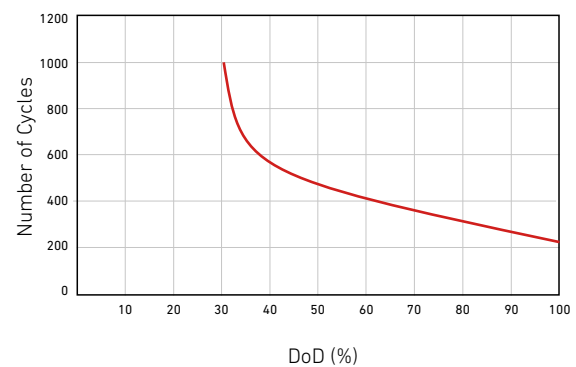
Measurements (L x W x H)	198 x 166 x 171 mm
Weight	Approx. 12.4 kg
Terminals	F11 (M6)
Case material	A.B.S. UL94-HB, UL94-V0 Optional



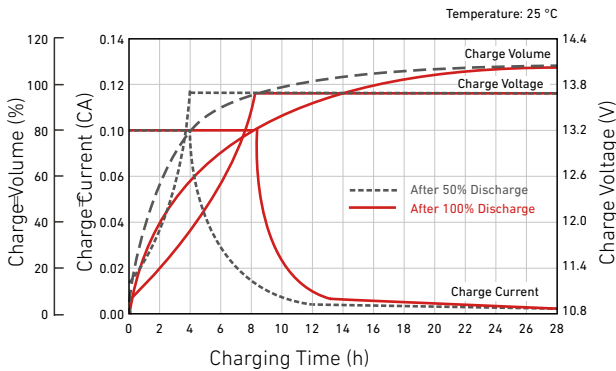
Discharge Characteristics Curve



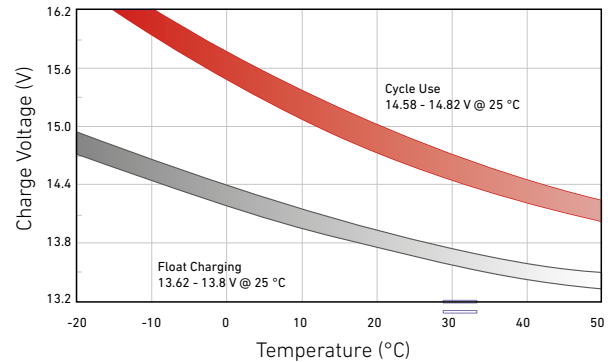
Cycle Life in Relation to Depth of Discharge



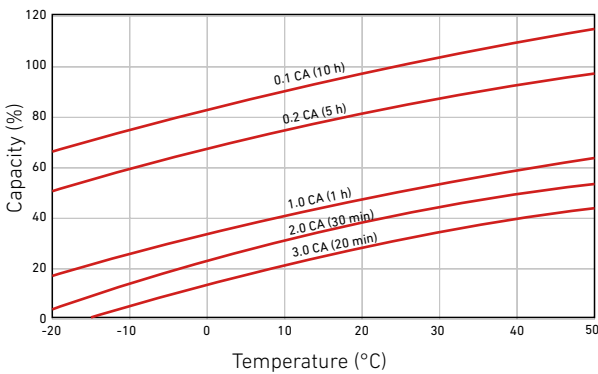
Discharge Characteristics Curve For Standby Use



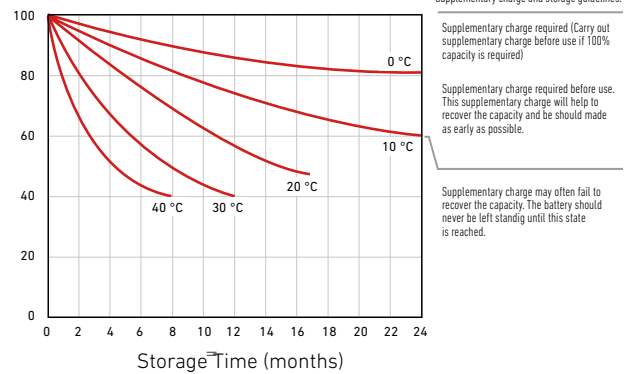
Relationship Between Charging Voltage and Temperature



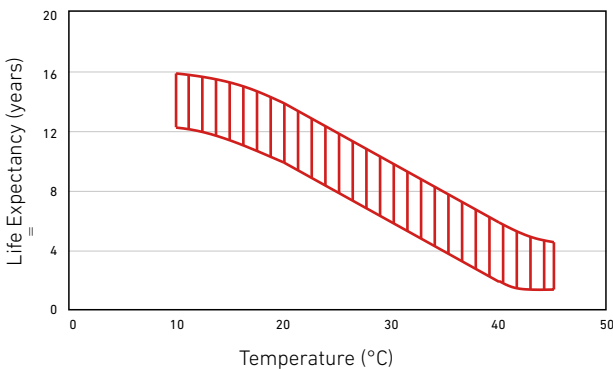
Temperature Effects on Capacity



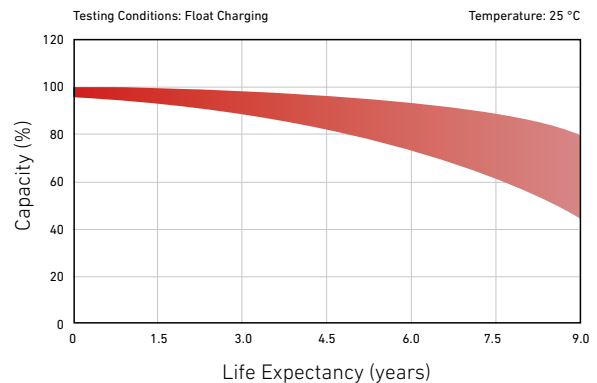
Storage Characteristics



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	128,1	97,63	74,16	43,80	24,44	14,56	11,28	8,87	7,55	5,07	4,22	2,21
1.65 V	123,5	92,25	70,90	42,05	23,60	14,10	10,93	8,63	7,35	5,01	4,17	2,17
1.70 V	117,5	84,93	66,41	40,20	22,83	13,63	10,64	8,39	7,16	4,94	4,11	2,15
1.75 V	109,8	77,74	61,80	38,42	22,00	13,16	10,32	8,18	6,98	4,87	4,05	2,12
1.80 V	100,0	70,37	57,06	36,72	21,16	12,68	10,00	7,94	6,80	4,79	4,00	2,10
1.85 V	88,0	57,51	47,35	31,63	18,98	11,62	9,24	7,38	6,34	4,49	3,77	1,99

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	220,6	165,9	129,65	79,56	45,93	27,60	21,55	17,02	14,55	9,90	8,30	4,35
1.65 V	218,2	159,8	125,79	77,18	44,61	26,85	20,97	16,62	14,22	9,81	8,21	4,28
1.70 V	209,9	149,8	119,58	74,51	43,43	26,10	20,49	16,23	13,90	9,68	8,09	4,24
1.75 V	199,6	139,6	112,89	71,95	42,09	25,31	19,96	15,88	13,60	9,57	8,00	4,19
1.80 V	185,0	128,6	105,71	69,47	40,72	24,53	19,42	15,48	13,29	9,43	7,90	4,15
1.85 V	165,7	107,0	88,97	60,42	36,74	22,59	18,04	14,44	12,44	8,87	7,45	3,95