



T115 CARBON

115 Ah | 12 V | 100 h

Specifications

Voltage	12 V
Nominal Capacity	115 Ah @ 100 hour-rate
Number of Cells	6
Internal Resistance	Approx. 6.3 mΩ
Design Life	15 years (floating charge)
Self Discharge	Monthly rate < 4% @ 25 °C Recharge after 6 months Charge before using

Temperature Ranges

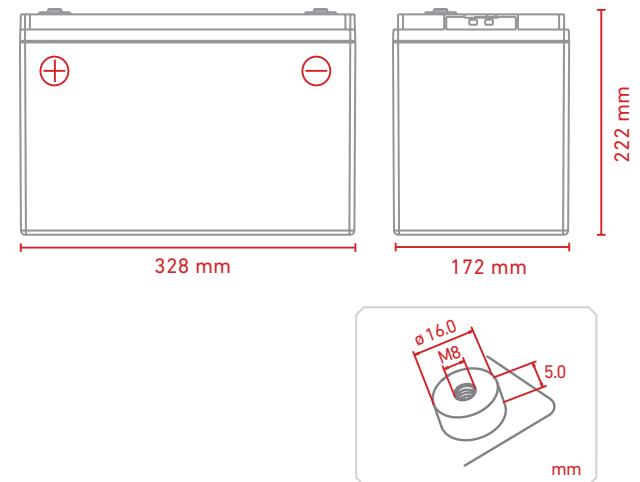
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	0 °C to 50 °C
Storage	-20 °C to 60 °C

Mechanical Specifications

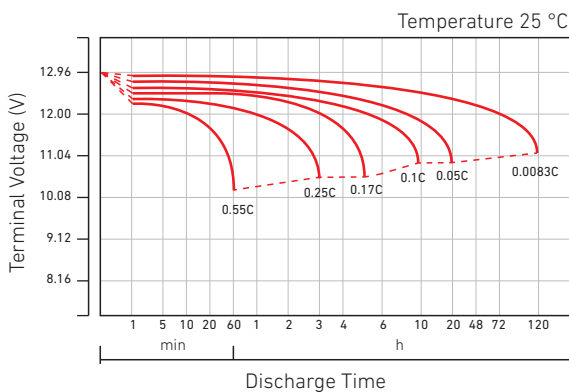
Measurements (L x W x H)	328 x 172 x 222 mm
Weight	Approx. 29.0 kg
Terminals	F12 (M8)
Case material	A.B.S. UL94-HB, UL94-V0

Charging & Discharging

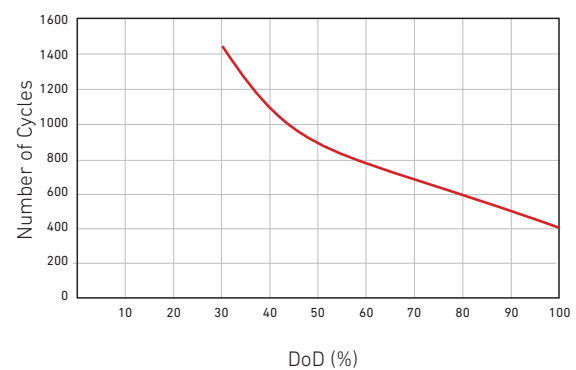
Max. Charging Current	30.0 A
Max. Discharge Current	1000 A (5 sec)
Cycle Use Voltage	13.8 V to 14.0 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Reference Capacity	C3 76 Ah C5 86 Ah C10 95 Ah C20 100 Ah C100 115 Ah



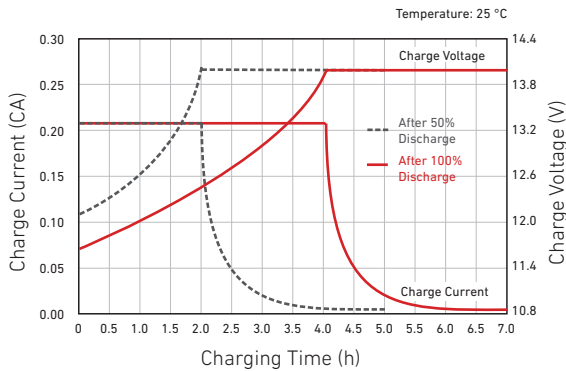
Discharge Characteristics Curve



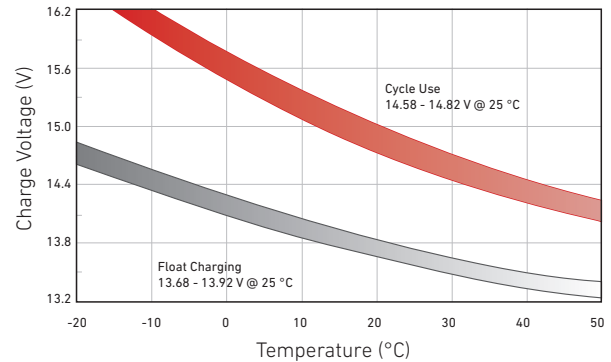
Cycle Life in Relation to Depth of Discharge



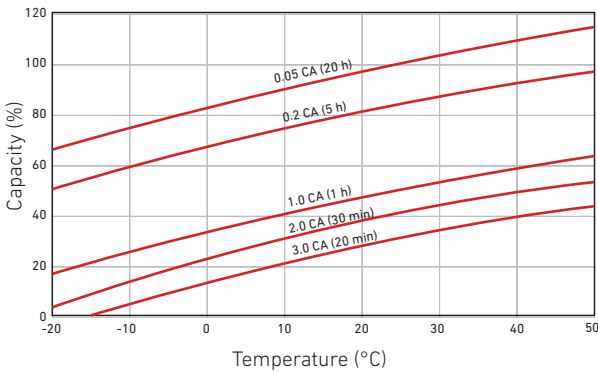
Charge Characteristics Curve For Cycle Use (IU)



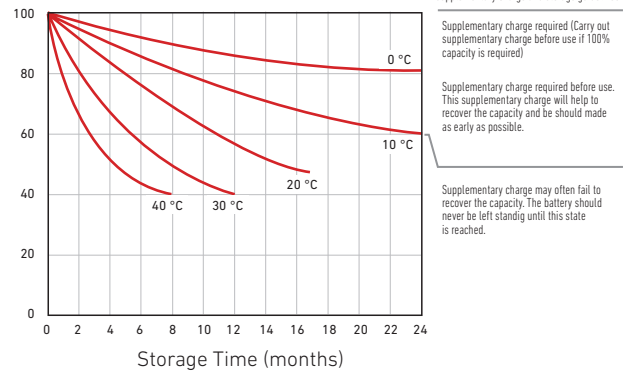
Relationship Between Charging Voltage and Temperature



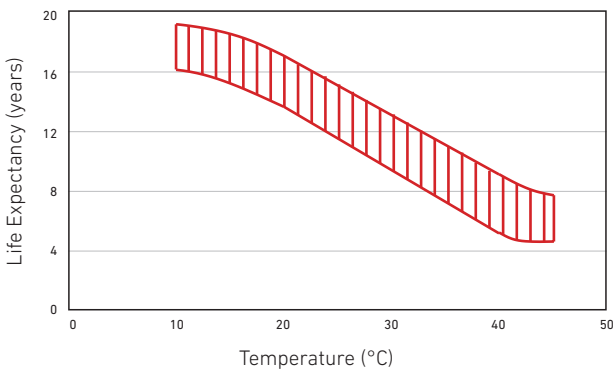
Temperature Effects on Capacity



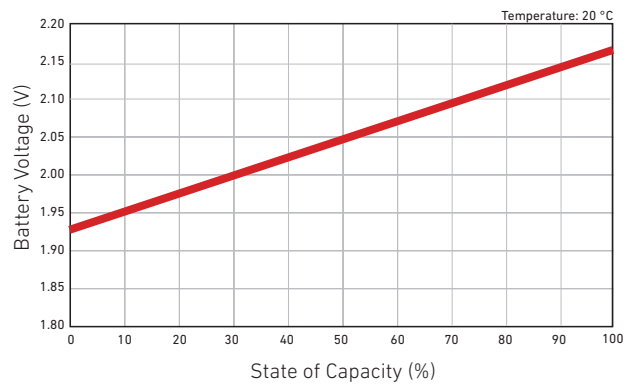
Storage Characteristics



Effect of Temperature on Long-Term Life



Relationship of OCV and State of Charge



Constant Current Discharge Characteristics: A (25 °C)

F.V	Time											
	1h	2h	3h	4h	5h	8h	10h	20h	48h	72h	100h	120h
1.60 V	55,5	32,48	24,18	19,15	16,14	11,01	9,66	5,22	2,23	1,53	1,13	0,96
1.65 V	54,4	31,93	23,81	18,88	15,94	10,89	9,56	5,17	2,21	1,51	1,11	0,95
1.70 V	53,0	31,19	23,32	18,53	15,67	10,73	9,43	5,10	2,18	1,49	1,10	0,94
1.75 V	51,1	30,19	22,64	18,05	15,30	10,50	9,25	5,00	2,14	1,47	1,08	0,92
1.80 V	48,5	28,80	21,71	17,38	14,79	10,18	9,00	4,86	2,08	1,43	1,05	0,89
1.85 V	44,8	26,82	20,36	16,41	14,05	9,72	8,64	4,67	2,00	1,37	1,01	0,86

Constant Power Discharge Characteristics: WPC (25 °C)

F.V	Time											
	1h	2h	3h	4h	5h	8h	10h	20h	48h	72h	100h	120h
1.60 V	103,7	61,56	46,18	36,76	31,11	21,51	18,99	10,26	4,39	3,01	2,21	1,88
1.65 V	102,8	60,95	45,75	36,45	30,88	21,33	18,84	10,18	4,36	2,98	2,19	1,87
1.70 V	100,5	59,74	44,92	35,85	30,42	21,04	18,59	10,05	4,30	2,94	2,17	1,84
1.75 V	97,4	58,09	43,80	35,05	29,81	20,64	18,26	9,87	4,22	2,89	2,13	1,81
1.80 V	92,9	55,70	42,16	33,86	28,92	20,06	17,79	9,61	4,11	2,82	2,07	1,76
1.85 V	86,4	52,14	39,72	32,10	27,56	19,20	17,09	9,23	3,95	2,71	1,99	1,69