



T115

115 Ah | 12 V | 100 h

Specifications

Voltage	12 V
Nominal Capacity	115 Ah @ 100 hour-rate
Number of Cells	6
Internal Resistance	Approx. 7.5 mΩ
Design Life	15 years (floating charge)
Self Discharge	Monthly rate < 3% @ 25 °C Recharge after 6 months Charge before using

Charging & Discharging

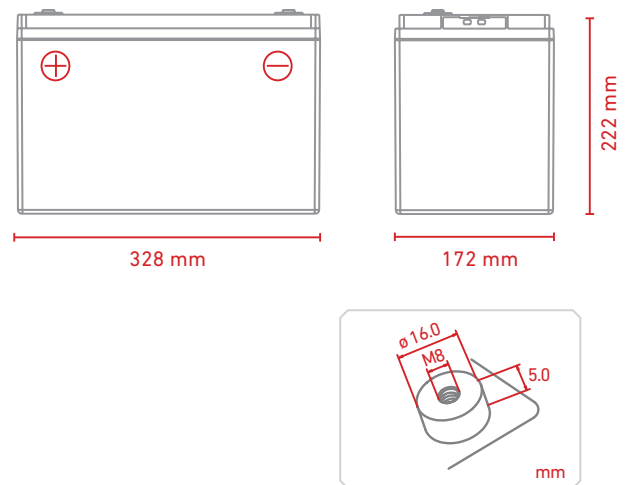
Max. Charging Current	20.0 A
Max. Discharge Current	1000 A (5 sec)
Float Charging Voltage	13.6 V to 13.8 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.2 V to 14.4 V @ 25 °C Temperature Compensation: -4mV/°C/Cell
Reference Capacity	C3 68 Ah C5 77 Ah C10 88 Ah C20 102 Ah C100 115 Ah

Temperature Ranges

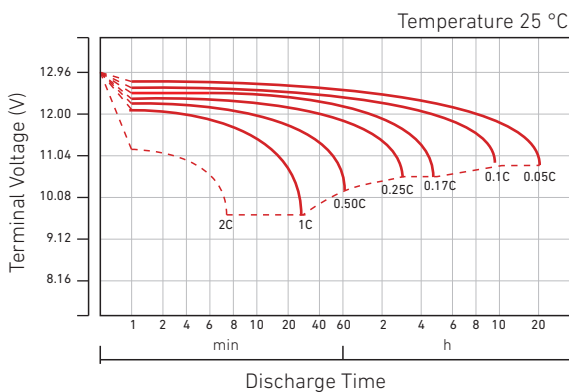
Normal Operation	25 °C ± 5 °C
Discharging	-40 °C to 60 °C
Charging	-20 °C to 50 °C
Storage	-40 °C to 60 °C

Mechanical Specifications

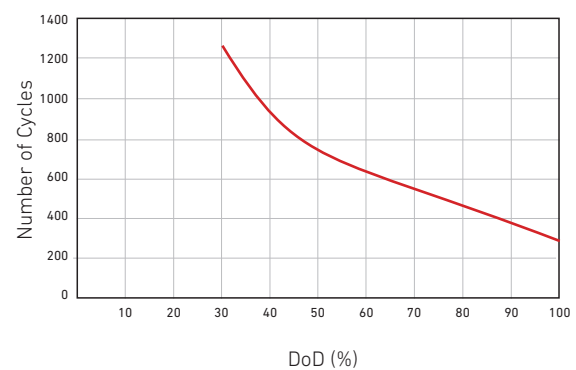
Measurements (L x W x H)	328 x 172 x 222 mm
Weight	Approx. 29.0 kg
Terminals	F12 (M8)
Case material	A.B.S. UL94-HB, UL94-V0 Optional



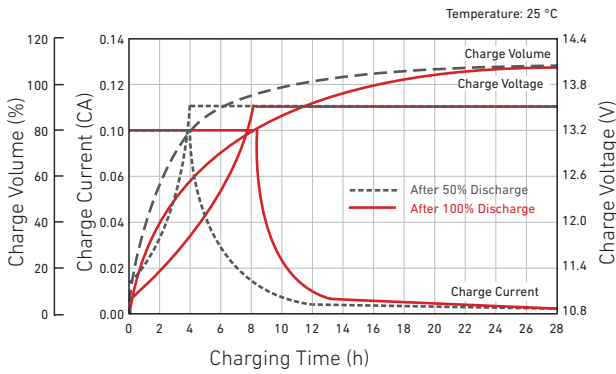
Discharge Characteristics Curve



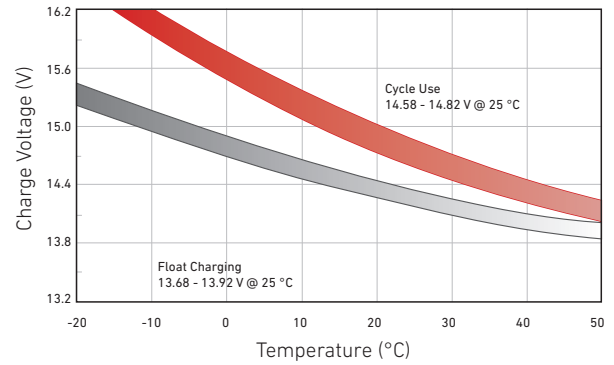
Cycle Life in Relation to Depth of Discharge



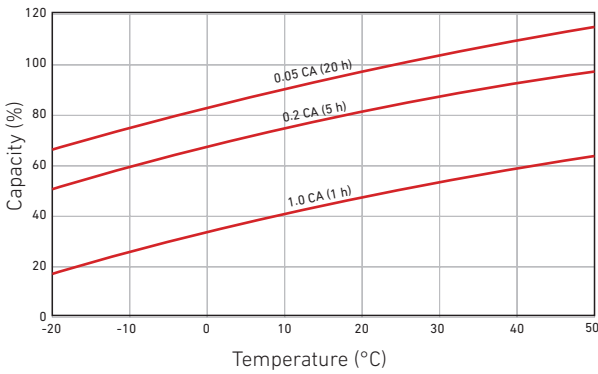
Charge Characteristics Curve For Cycle Use (IU)



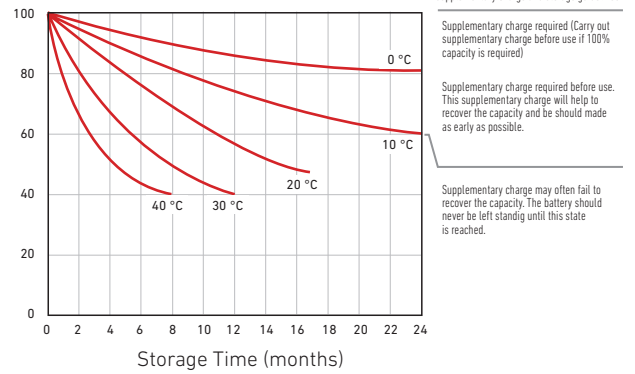
Relationship Between Charging Voltage and Temperature



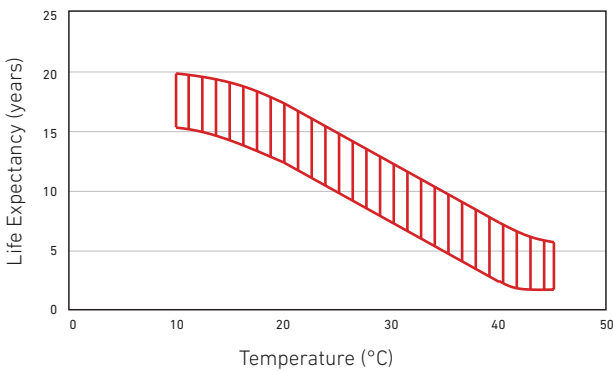
Temperature Effects on Capacity



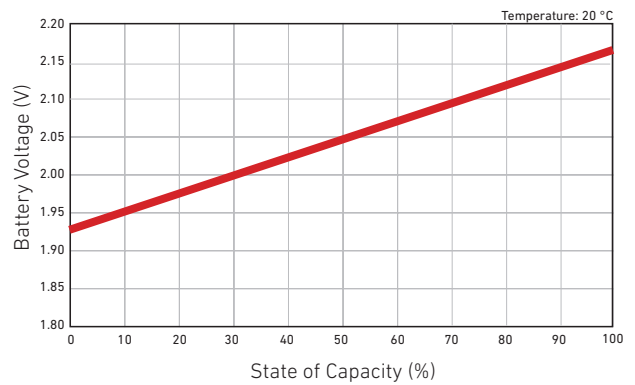
Storage Characteristics



Effect of Temperature on Long-Term Life



Relationship of OCV and State of Charge



Constant Current Discharge Characteristics: A (25 °C)

F.V	Time											
	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h	100 h
1.60 V	185,4	145,0	95,4	55,9	33,4	23,1	19,1	16,1	11,0	9,12	5,50	1,19
1.65 V	176,4	142,1	93,8	55,6	33,2	23,0	19,0	16,0	10,9	9,03	5,30	1,14
1.70 V	170,1	139,8	93,0	55,1	32,9	22,8	18,9	15,9	10,8	8,95	5,15	1,11
1.75 V	158,9	134,7	93,2	54,6	32,7	22,7	18,8	15,7	10,7	8,86	5,00	1,08
1.80 V	146,6	125,6	92,5	53,3	32,1	22,1	18,3	15,4	10,6	8,77	4,70	1,01
1.85 V	132,5	114,0	87,4	50,7	30,7	21,1	17,4	14,8	10,1	8,51	4,50	0,97

Constant Power Discharge Characteristics: WPC (25 °C)

F.V	Time											
	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h	100 h
1.60 V	329	264	178	108	65,7	45,8	38,0	32,0	21,9	18,2	9,73	2,10
1.65 V	319	259	176	107	65,3	45,8	37,9	31,9	21,8	18,1	9,56	2,06
1.70 V	311	256	177	107	64,9	45,6	37,9	31,8	21,6	17,9	9,38	2,02
1.75 V	293	247	177	106	64,5	45,4	37,5	31,4	21,5	17,7	9,20	1,98
1.80 V	273	231	176	104	63,6	44,2	36,7	30,9	21,1	17,5	9,03	1,95
1.85 V	250	211	167	99,2	61,3	42,3	34,9	29,5	20,2	17,0	8,50	1,83