



## T170 CARBON

170 Ah | 12 V | 100 h

### Specifications

Voltage	12 V
Nominal Capacity	170 Ah @ 100 hour-rate
Number of Cells	6
Internal Resistance	Approx. 6.0 mΩ
Design Life	15 years (floating charge)
Self Discharge	Monthly rate < 4% @ 25 °C Recharge after 6 months Charge before using

### Temperature Ranges

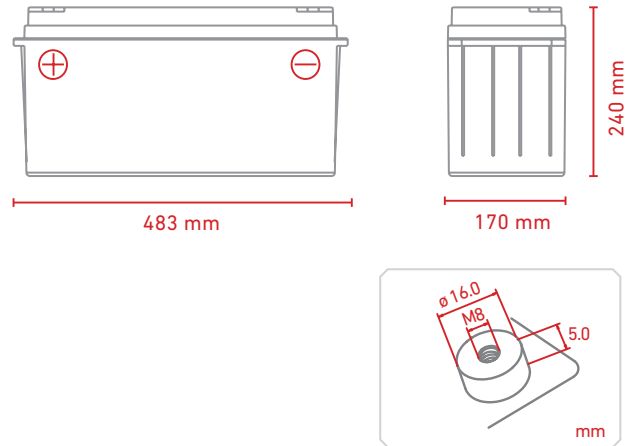
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	0 °C to 50 °C
Storage	-20 °C to 60 °C

### Charging & Discharging

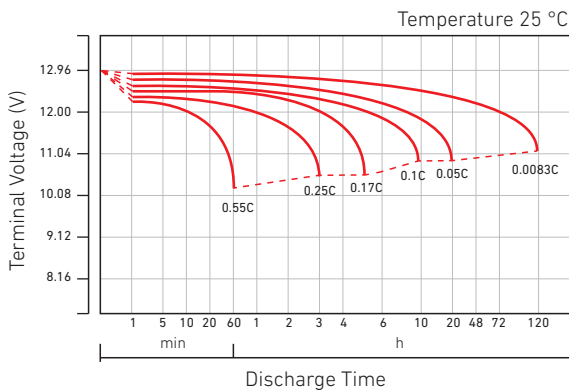
Max. Charging Current	54.0 A
Max. Discharge Current	1800 A (5 sec)
Cycle Use Voltage	13.8 V to 14.0 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Reference Capacity	C3 115 Ah C5 129 Ah C10 143 Ah C20 150 Ah C100 170 Ah

### Mechanical Specifications

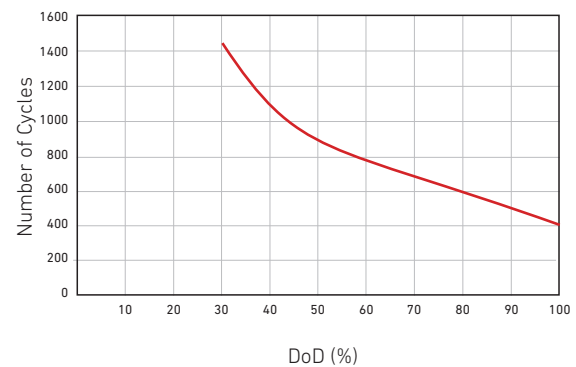
Measurements (L x W x H)	483 x 170 x 240 mm
Weight	Approx. 41.0 kg
Terminals	F12 (M8)
Case material	A.B.S. UL94-HB, UL94-V0



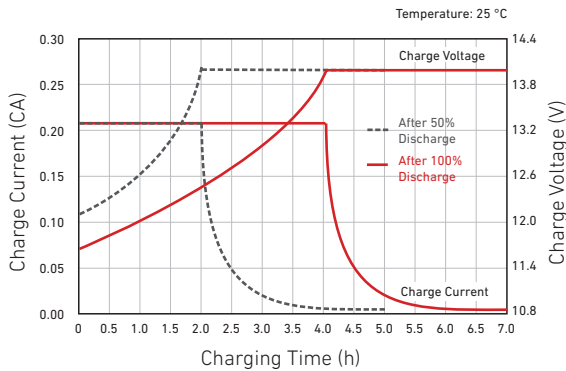
### Discharge Characteristics Curve



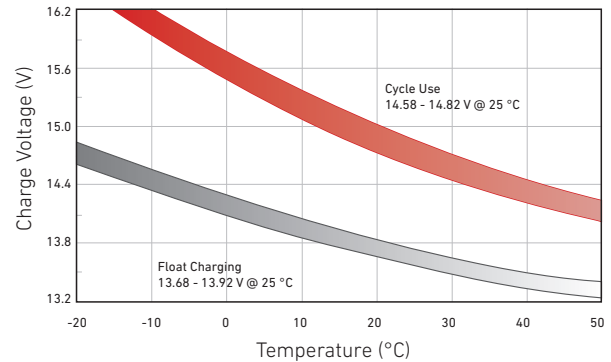
### Cycle Life in Relation to Depth of Discharge



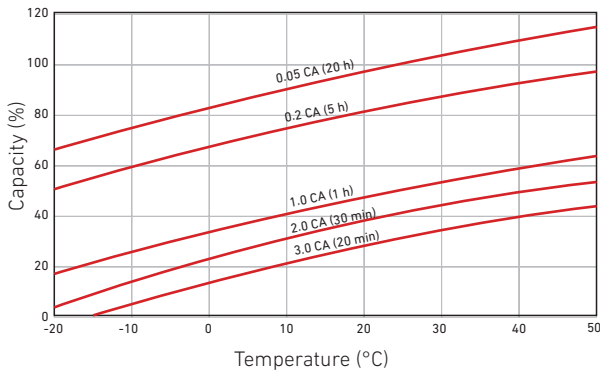
**Charge Characteristics Curve For Cycle Use (IU)**



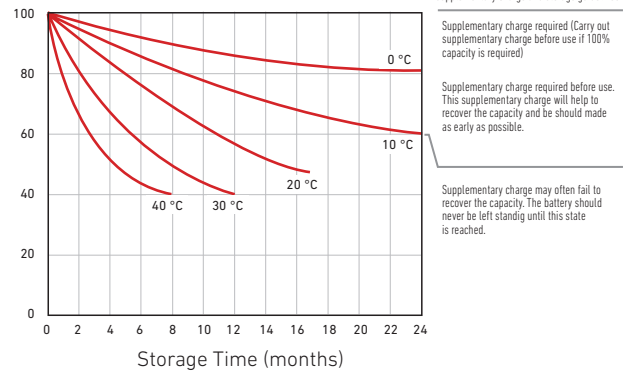
**Relationship Between Charging Voltage and Temperature**



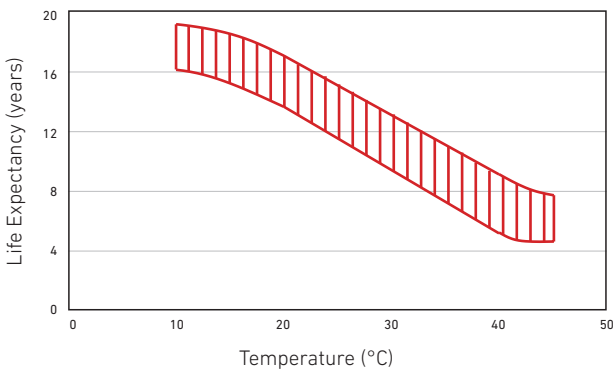
**Temperature Effects on Capacity**



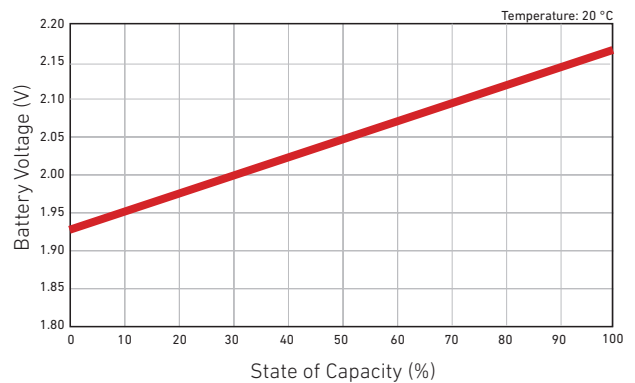
**Storage Characteristics**



**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	83,2	48,72	36,27	28,72	24,21	16,52	14,49	7,83	3,35	2,29	1,69	1,44
1.65 V	81,6	47,89	35,71	28,33	23,91	16,34	14,34	7,75	3,32	2,27	1,67	1,42
1.70 V	79,5	46,79	34,97	27,80	23,51	16,09	14,15	7,65	3,27	2,24	1,65	1,40
1.75 V	76,7	45,29	33,96	27,07	22,95	15,75	13,88	7,50	3,21	2,20	1,62	1,38
1.80 V	72,8	43,21	32,56	26,07	22,19	15,28	13,50	7,30	3,12	2,14	1,57	1,34
1.85 V	67,2	40,23	30,54	24,61	21,07	14,59	12,96	7,00	3,00	2,05	1,51	1,28

**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	155,6	92,34	69,27	55,14	46,66	32,26	28,48	15,39	6,59	4,51	3,32	2,82
1.65 V	154,2	91,43	68,63	54,67	46,32	32,00	28,26	15,27	6,53	4,47	3,29	2,80
1.70 V	150,8	89,61	67,38	53,77	45,64	31,56	27,89	15,07	6,45	4,42	3,25	2,77
1.75 V	146,2	87,13	65,71	52,57	44,72	30,95	27,39	14,80	6,33	4,34	3,19	2,72
1.80 V	139,4	83,55	63,24	50,80	43,38	30,09	26,68	14,42	6,17	4,22	3,11	2,65
1.85 V	129,6	78,21	59,58	48,14	41,33	28,80	25,64	13,85	5,93	4,06	2,99	2,54