



## T170 Pro

170 Ah | 12 V | 100 h

### Specifications

Voltage	12 V
Nominal Capacity	170 Ah @ 100 hour-rate
Number of Cells	6
Internal Resistance	Approx. 5.0 mΩ
Design Life	12 years (floating charge)
Self Discharge	Monthly rate < 3% @ 25 °C Recharge after 6 months Charge before using

### Temperature Ranges

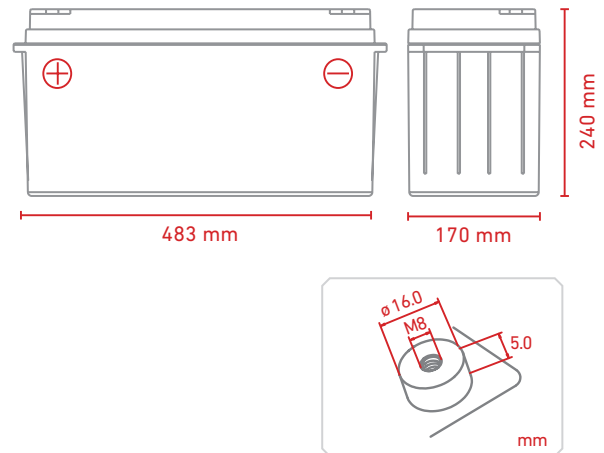
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	-10 °C to 50 °C
Storage	-20 °C to 60 °C

### Charging & Discharging

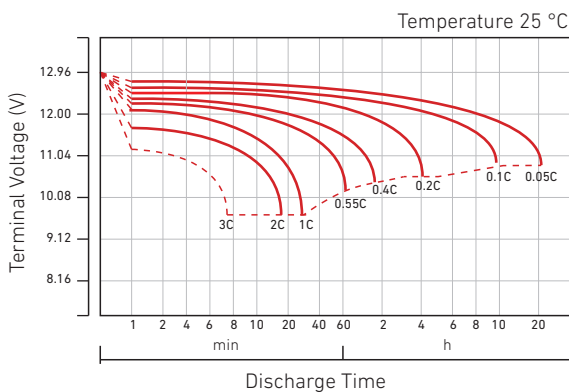
Max. Charging Current	45.0 A
Max. Discharge Current	1500 A (5 sec)
Float Charging Voltage	13.6 V to 13.8 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V to 14.8 V @ 25 °C Temperature Compensation: -4mV/°C/Cell
Reference Capacity	C3 115 Ah C5 129 Ah C10 143 Ah C20 150 Ah C100 170 Ah

### Mechanical Specifications

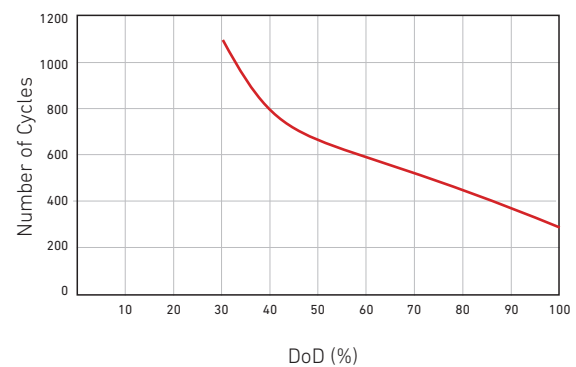
Measurements (L x W x H)	483 x 170 x 240 mm
Weight	Approx. 41.0 kg
Terminals	F12 (M8)
Case material	A.B.S. UL94-HB, UL94-V0 Optional



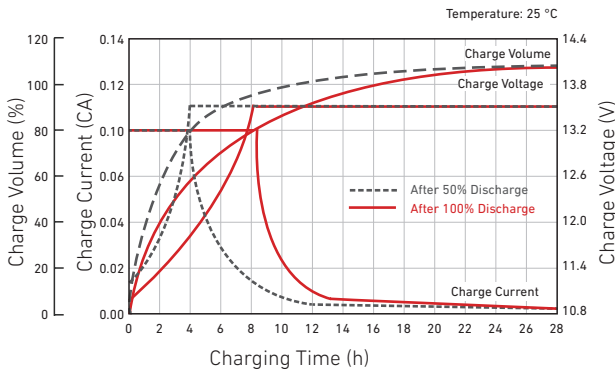
### Discharge Characteristics Curve



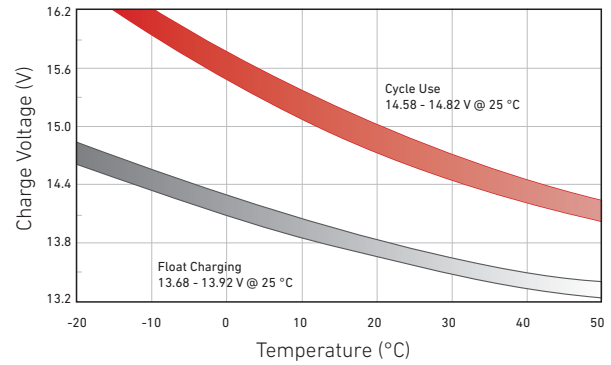
### Cycle Life in Relation to Depth of Discharge



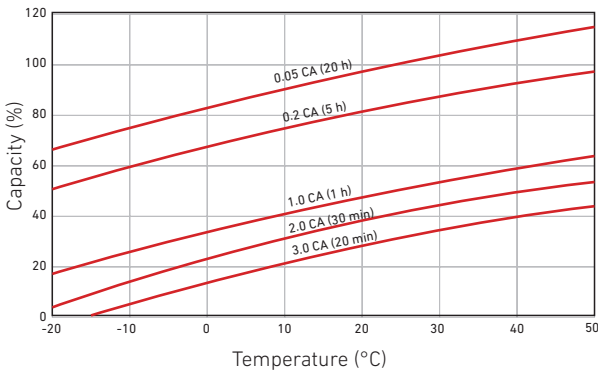
**Charge Characteristics Curve For Cycle Use (IU)**



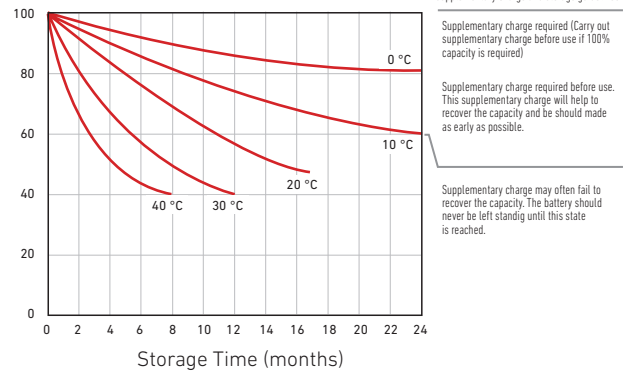
**Relationship Between Charging Voltage and Temperature**



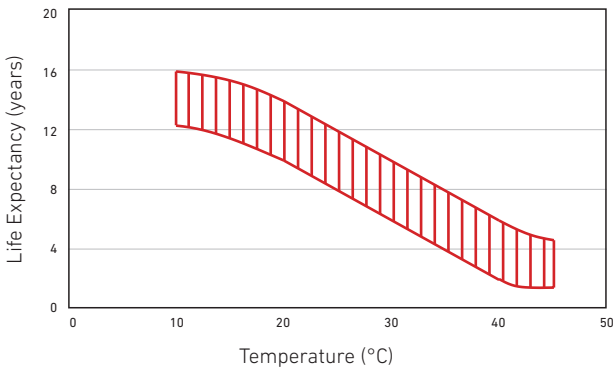
**Temperature Effects on Capacity**



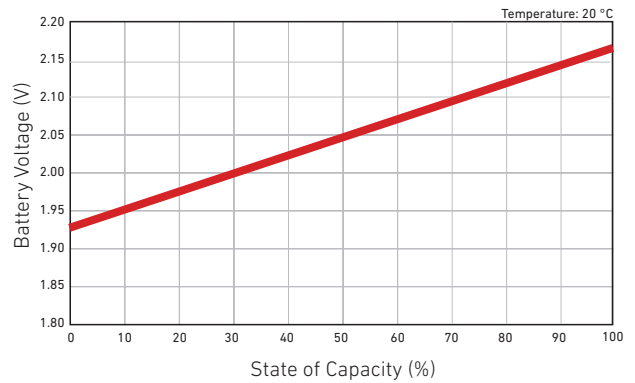
**Storage Characteristics**



**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	317,8	244,9	143,5	86,2	52,7	39,7	31,4	26,5	18,05	15,29	7,79	1,68
1.65 V	307,2	237,6	140,5	84,6	51,8	39,1	31,0	26,1	17,85	15,14	7,72	1,67
1.70 V	293,4	228,0	136,5	82,5	50,6	38,3	30,4	25,7	17,58	14,94	7,63	1,65
1.75 V	274,9	215,0	131,1	79,5	49,0	37,2	29,6	25,1	17,21	14,65	7,50	1,62
1.80 V	250,2	197,6	123,7	75,5	46,7	35,6	28,5	24,2	16,69	14,25	7,32	1,58
1.85 V	216,4	173,6	113,1	69,7	43,5	33,4	26,9	23,0	15,94	13,68	7,05	1,52

**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	568,6	450,7	274,4	169,8	105,2	79,8	63,4	53,7	37,1	31,65	16,15	3,48
1.65 V	564,3	446,4	272,6	168,3	104,1	79,0	62,9	53,3	36,8	31,39	16,04	3,46
1.70 V	544,9	432,1	266,4	164,6	102,0	77,6	61,9	52,5	36,3	30,99	15,86	3,42
1.75 V	519,8	413,5	258,4	159,5	99,2	75,7	60,5	51,4	35,6	30,44	15,60	3,36
1.80 V	481,2	385,4	246,2	152,1	95,1	72,8	58,4	49,9	34,6	29,65	15,24	3,29
1.85 V	423,7	343,4	227,5	141,4	89,1	68,6	55,4	47,5	33,1	28,49	14,70	3,17