



T300 Pro

300 Ah | 12 V | 100 h

Specifications

Voltage	12 V
Nominal Capacity	300 Ah @ 100 hour-rate
Number of Cells	6
Internal Resistance	Approx. 2.6 mΩ
Design Life	12 years (floating charge)
Self Discharge	Monthly rate < 3% @ 25 °C Recharge after 6 months Charge before using

Temperature Ranges

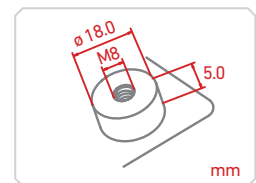
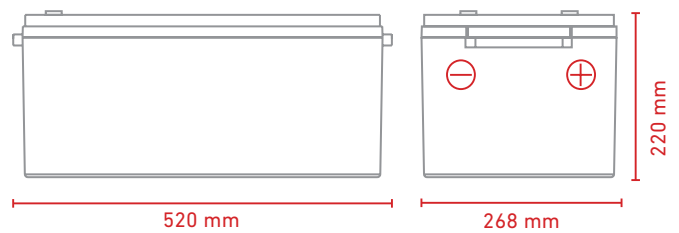
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	-10 °C to 50 °C
Storage	-20 °C to 60 °C

Charging & Discharging

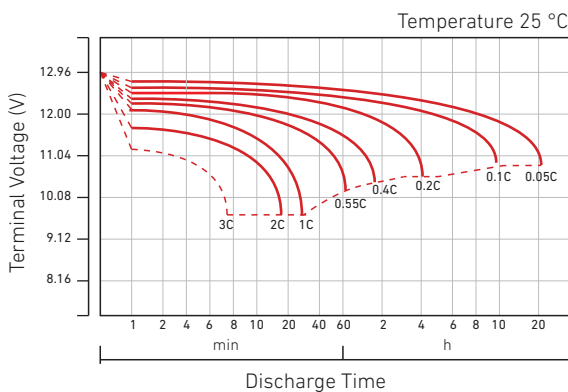
Max. Charging Current	78.0 A
Max. Discharge Current	2600 A (5 sec)
Float Charging Voltage	13.6 V to 13.8 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V to 14.8 V @ 25 °C Temperature Compensation: -4mV/°C/Cell
Reference Capacity	C3 198 Ah C5 223 Ah C10 248 Ah C20 260 Ah C100 300 Ah

Mechanical Specifications

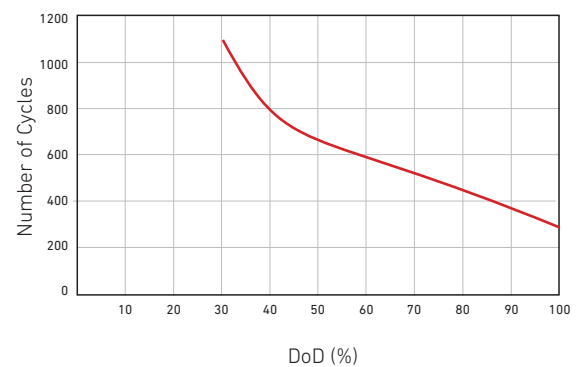
Measurements (L x W x H)	520 x 268 x 220 mm
Weight	Approx. 71.0 kg
Terminals	F14 (M8)
Case material	A.B.S. UL94-HB, UL94-V0 Optional



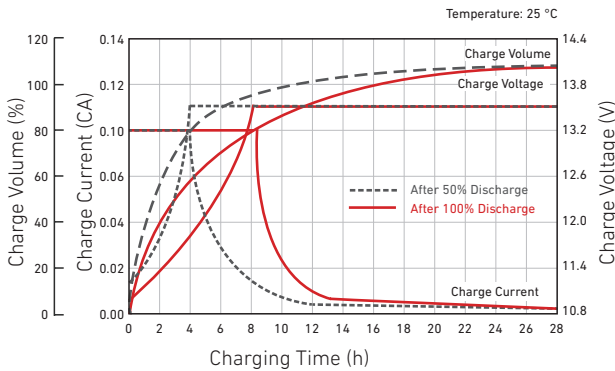
Discharge Characteristics Curve



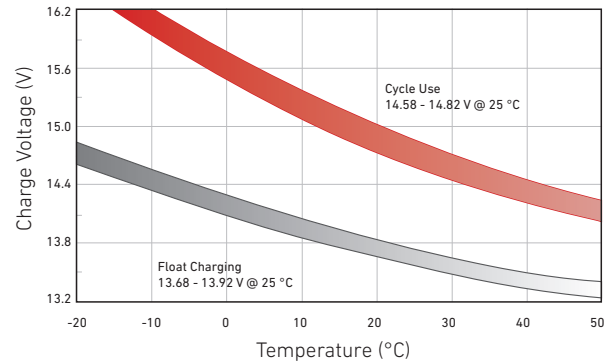
Cycle Life in Relation to Depth of Discharge



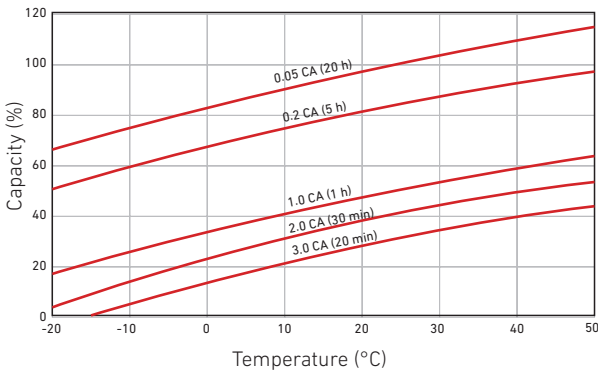
Charge Characteristics Curve For Cycle Use (IU)



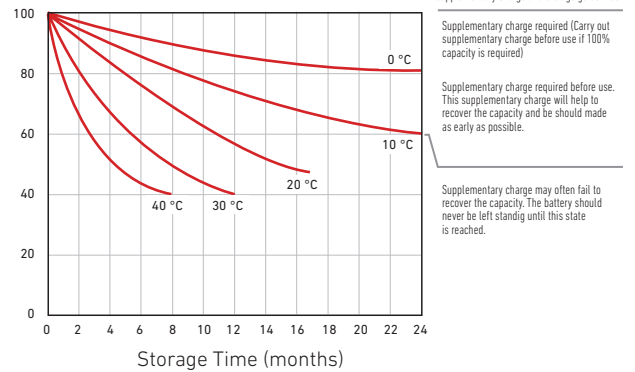
Relationship Between Charging Voltage and Temperature



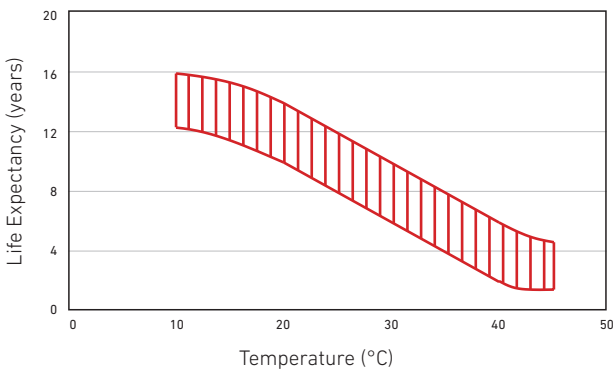
Temperature Effects on Capacity



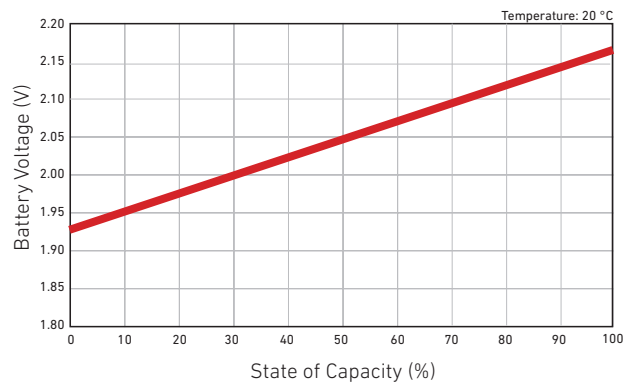
Storage Characteristics



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	515,7	406,5	235,6	148,0	91,4	68,1	54,4	45,9	31,29	26,51	13,51	2,91
1.65 V	498,5	394,3	230,7	145,2	89,8	67,1	53,7	45,3	30,94	26,24	13,39	2,89
1.70 V	476,1	378,3	224,2	141,5	87,7	65,7	52,7	44,5	30,48	25,89	13,22	2,85
1.75 V	446,1	356,9	215,3	136,4	84,9	63,8	51,3	43,5	29,83	25,40	13,00	2,80
1.80 V	405,9	328,0	203,1	129,4	81,0	61,1	49,4	42,0	28,94	24,71	12,68	2,73
1.85 V	351,1	288,1	185,8	119,5	75,4	57,3	46,6	39,9	27,63	23,70	12,22	2,63

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	922,7	748,0	450,5	291,2	182,3	136,9	109,9	93,0	64,3	54,85	28,00	6,04
1.65 V	915,6	740,8	447,6	288,7	180,5	135,6	109,0	92,4	63,8	54,42	27,80	5,99
1.70 V	884,2	717,0	437,4	282,3	176,9	133,2	107,2	91,0	62,9	53,72	27,48	5,93
1.75 V	843,4	686,2	424,4	273,6	172,0	129,9	104,8	89,2	61,7	52,76	27,05	5,83
1.80 V	780,9	639,6	404,4	260,9	164,9	125,0	101,3	86,5	60,0	51,39	26,42	5,70
1.85 V	687,5	569,8	373,6	242,7	154,4	117,8	96,0	82,4	57,4	49,38	25,49	5,50