



T27 Pro

27 Ah | 12 V | 100 h

Specifications

Voltage	12 V
Nominal Capacity	27 Ah @ 100 hour-rate
Number of Cells	6
Internal Resistance	Approx. 10.0 mΩ
Cold Cranking Ampere (CCA)	205 A
Self Discharge	Monthly rate < 3% @ 25 °C Recharge after 6 months Charge before using

Temperature Ranges

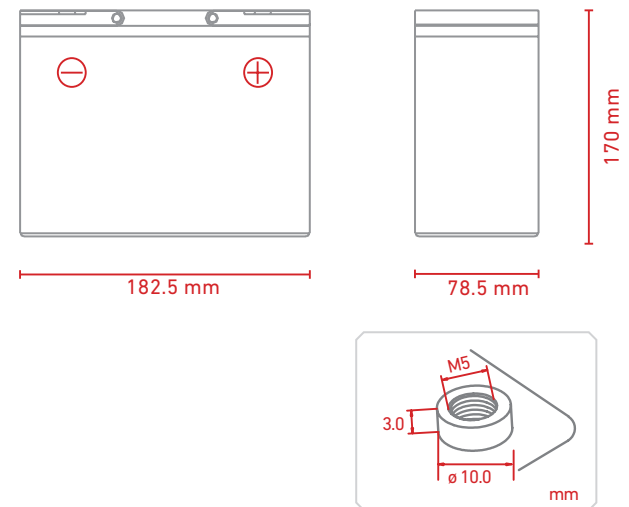
Normal Operation	25 °C ± 5 °C
Discharging	-20 °C to 60 °C
Charging	-10 °C to 50 °C
Storage	-20 °C to 60 °C

Charging & Discharging

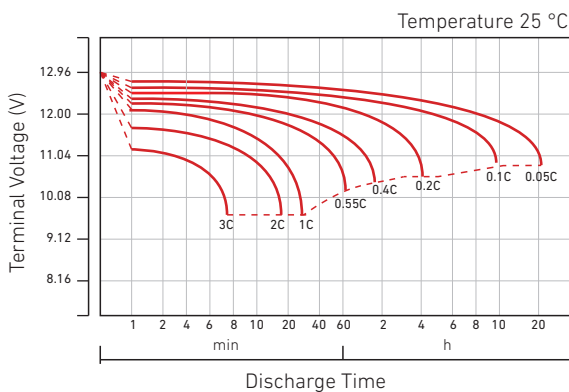
Max. Charging Current	7.2 A
Max. Discharge Current	288 A (5 sec)
Float Charging Voltage	13.7 V to 13.9 V @ 25 °C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V to 14.8 V @ 25 °C Temperature Compensation: -4mV/°C/Cell
Reference Capacity	C3 19 Ah C5 21 Ah C10 23 Ah C20 25 Ah C100 27 Ah

Mechanical Specifications

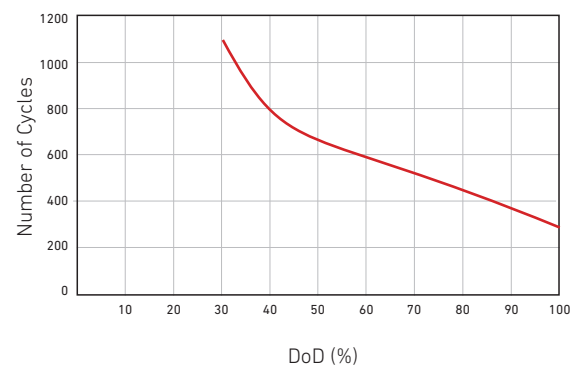
Measurements (L x W x H)	182.5 x 78.5 x 170 mm
Weight	Approx. 7.0 kg
Terminals	F18
Case material	A.B.S. UL94-HB, UL94-V0 Optional



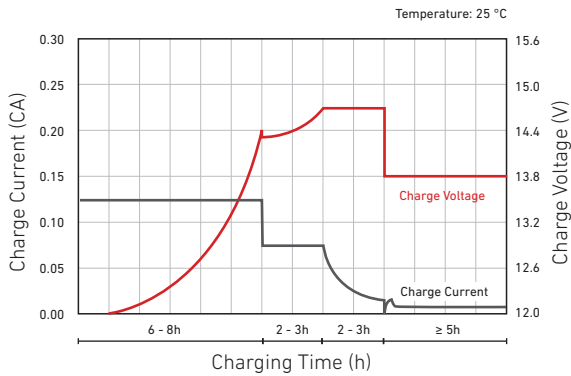
Discharge Characteristics Curve



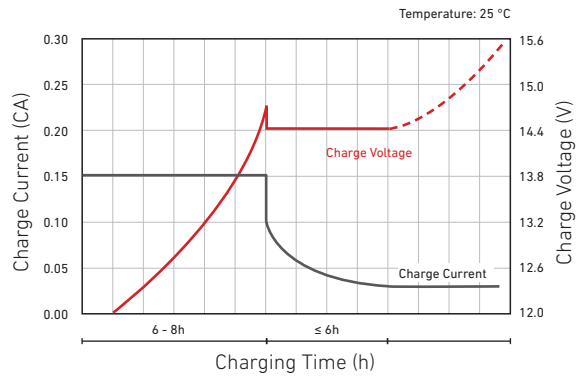
Cycle Life in Relation to Depth of Discharge



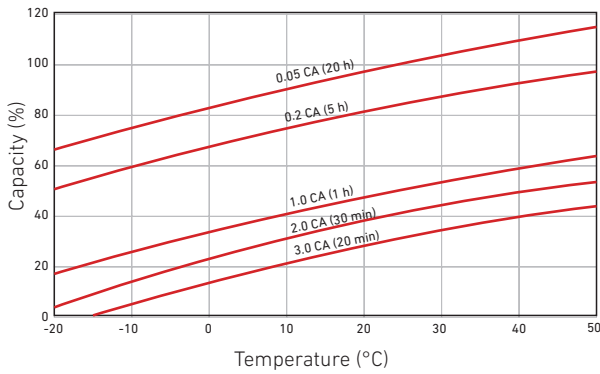
Charge Characteristic Curve for Cycle Use (IIUU)



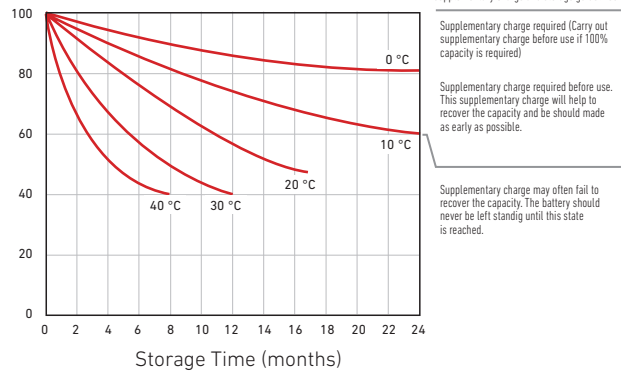
Charge Characteristic Curve for Cycle Use (IUI)



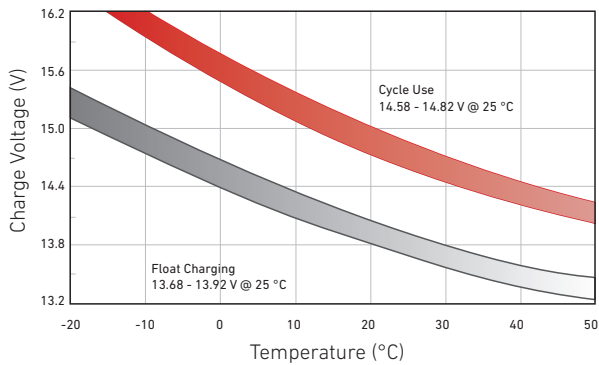
Temperature Effects on Capacity



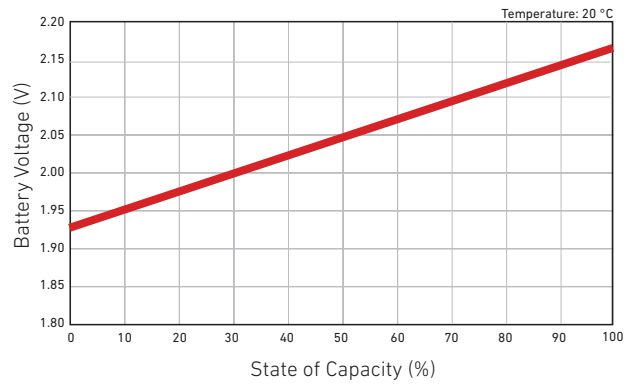
Storage Characteristics



Relationship Between Charging Voltage and Temperature



Relationship of OCV and State of Charge



Constant Current Discharge Characteristics: A (25 °C)

F.V	Time										
	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h	100 h	
1.60 V	28,17	16,53	9,43	6,66	5,21	4,35	2,94	2,43	1,25	0,27	
1.65 V	27,58	16,22	9,27	6,56	5,14	4,29	2,91	2,41	1,24	0,27	
1.70 V	26,79	15,81	9,06	6,42	5,04	4,22	2,86	2,37	1,22	0,26	
1.75 V	25,73	15,24	8,77	6,24	4,91	4,12	2,80	2,33	1,20	0,26	
1.80 V	24,27	14,47	8,37	5,98	4,73	3,99	2,72	2,26	1,17	0,25	
1.85 V	22,21	13,36	7,79	5,61	4,46	3,79	2,59	2,17	1,13	0,24	

Constant Power Discharge Characteristics: WPC (25 °C)

F.V	Time										
	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h	100 h	
1.60 V	51,16	30,92	17,88	12,73	10,00	8,38	5,74	4,78	2,46	0,53	
1.65 V	50,83	30,65	17,70	12,61	9,92	8,32	5,69	4,74	2,44	0,53	
1.70 V	49,67	29,97	17,35	12,38	9,75	8,20	5,61	4,68	2,41	0,52	
1.75 V	48,19	29,05	16,87	12,07	9,54	8,03	5,50	4,59	2,37	0,51	
1.80 V	45,92	27,70	16,18	11,62	9,21	7,79	5,35	4,48	2,32	0,50	
1.85 V	42,43	25,76	15,14	10,95	8,73	7,42	5,12	4,30	2,24	0,48	