

# XT20G (12V 20Ah)

### SPECIFICATIONS

**Nominal Voltage (V)** 12V

#### Nominal Capacity

20 hour rate (1.0A to 10.5V)	20Ah
5 hour rate (3.4A to 10.2V)	17Ah
1 hour rate (11A to 9.6V)	11Ah
1C (20A to 9.6V)	10.67Ah

**Weight** Approx. 6.9kg (15.18Lbs)

**Internal Resistance (@1kHz)** Approx. 9mΩ

**Maximum Discharge Current**  
For 5 seconds 300A

#### Charging Methods @25°C (77°F)

**Cycle Use:**  
Charging Voltage 13.80V to 14.40V  
Coefficient -5.0mV/°C/Cell  
Maximum Charging Current 6A

**Standby Use:**  
Float Charging Voltage 13.50V to 13.80V  
Coefficient -3.0mV/°C/Cell

#### Operating Temperature Range

Charge	-15°C (5°F)	to	+40°C (104°F)
Discharge	-15°C (5°F)	to	+50°C (122°F)
Storage	-15°C (5°F)	to	+40°C (104°F)

#### Charge Retention (Shelf Life) @20°C (68°F)

1 month	92%
3 months	90%
6 months	80%

**Case Material** ABS

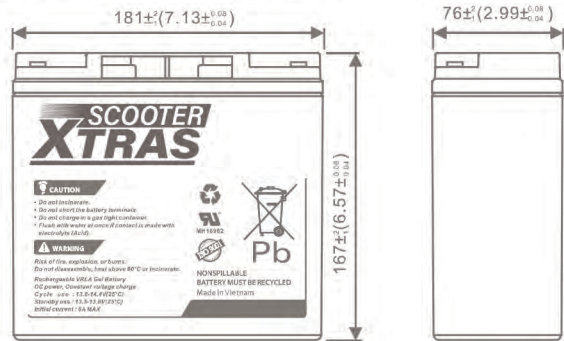
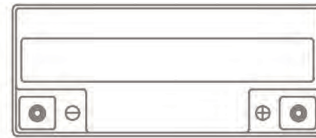
**Terminal** F8

#### Description of Torque Value of Hard Ware for the Terminals

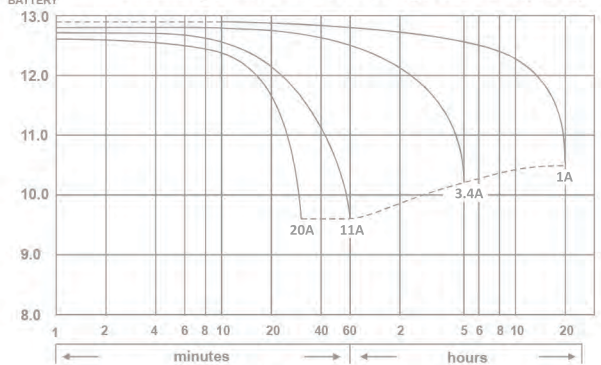
Recommended Torque Value	M6: 7 N-m (71kgf-cm)
Max. Allowable Torque Value	M6: 9 N-m (92kgf-cm)



### DIMENSIONS mm (inch)

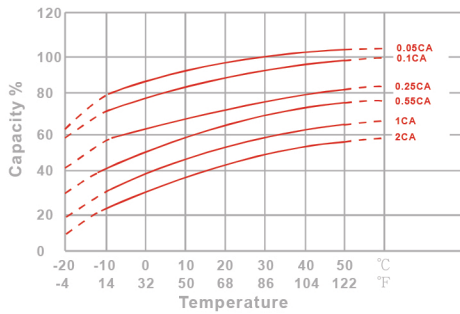


(V) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)

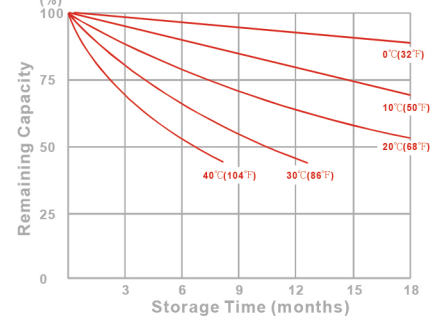


## XT20G

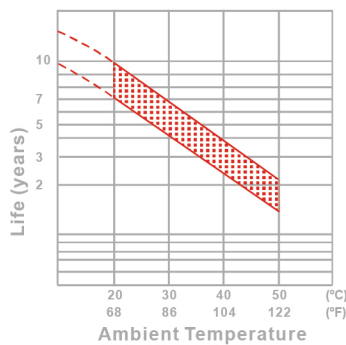
Effect of Temperature on Capacity 25°C (77°F)



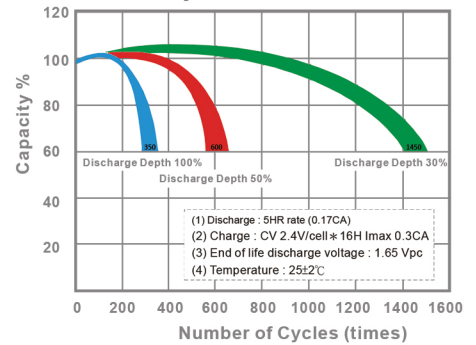
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



### - PERFORMANCE DATA

#### Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	101	121	132	139	141	143	145
10	min	75.3	85.9	93.0	95.2	96.3	97.5	99
15	min	63.5	71.0	76.5	79.3	80.1	81.0	81.9
30	min	33.8	36.1	38.6	40.1	40.5	41.0	41.4
60	min	20.9	21.5	22.3	24.0	24.1	24.4	24.7
120	min	12.1	12.6	12.9	13.4	13.5	13.6	13.7
180	min	8.95	9.58	9.80	10.0	10.1	10.2	10.3
240	min	7.40	7.69	7.88	8.00	8.06	8.10	8.14
300	min	6.45	6.67	6.79	6.89	6.92	6.96	7.02
600	min	3.68	3.78	3.84	3.86	3.89	3.92	3.95
1200	min	1.92	1.95	1.98	2.01	2.03	2.05	2.06

#### - Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
5	min	64.2	71.7	75.2	78.3	79.5	80.9	83.2
10	min	44.4	47.4	49.9	51.9	52.8	53.7	55.3
15	min	34.7	37.2	38.8	40.3	40.9	41.4	42.3
30	min	17.9	19.4	20.5	21.3	21.5	21.9	22.5
60	min	10.7	11.5	12.1	12.3	12.4	12.5	12.6
120	min	6.06	6.28	6.41	6.53	6.57	6.62	6.68
180	min	4.50	4.75	4.85	4.93	4.96	5.00	5.05
240	min	3.76	3.85	3.92	3.97	3.99	4.02	4.04
300	min	3.31	3.38	3.42	3.46	3.47	3.49	3.51
600	min	1.89	1.92	1.93	1.95	1.96	1.97	1.98
1200	min	0.96	0.99	1.00	1.01	1.02	1.03	1.04

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$  (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$  (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$  (+8%~-8%),  $X \geq 60\text{min}$  (+5%~-5%)

Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.