

UP-G40-12



Specification	
Nominal Voltage	12V
Nominal Capacity (20HR)	40.0AH
Dimension	Length 197±2mm (7.76 inches)
	Width 165±2mm (6.50 inches)
	Container Height 170±2mm (6.69 inches)
	Total Height (with Terminal) 170±2mm (6.69 inches)
Approx Weight	Approx 13.5 kg (29.77lbs)
Terminal	T6
Container Material	ABS
Rated Capacity	41.6 AH/2.08A (20hr, 1.80V/cell, 25°C/77°F)
	37.0AH/3.77A (10hr, 1.75V/cell, 25°C/77°F)
	33.2 A H/6.64A (5hr, 1.75V/cell, 25°C/77°F)
	28.8 AH/9.61A (3hr, 1.75V/cell, 25°C/77°F)
	22.85 AH/22.85A (1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	380A (5s)
Internal Resistance	Approx 12.0mΩ
Operating Temperature Range	Discharge : -20~55°C (-4~131°F)
	Charge : 0~40°C (32~104°F)
	Storage : -20~50°C (-4~122°F)
Nominal Operating Temperature Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 7.6A Voltage. 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
Standby Use	No limit on Initial Charging Current Voltage. 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	Batteries may be stored for up to 9 months at 25°C (77°F) and then a freshening charge is required.

Constant Current Discharge (Amperes) at 25°C (77°F)

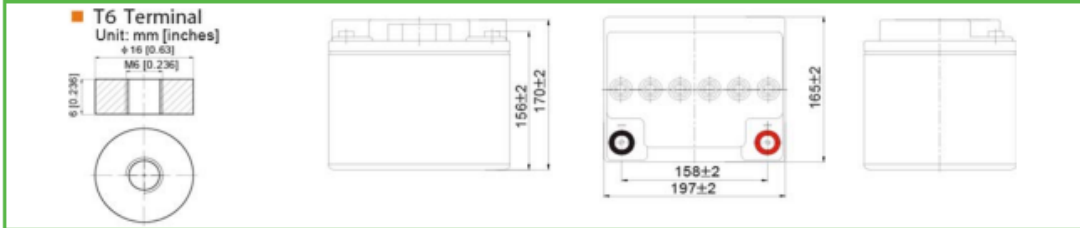
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	35,10	27,55	21,05	17,60	11,15	8,51	7,05	6,09	5,25	4,85	4,20	3,84	3,54	1,99
1.80V/cell	40,20	30,80	23,15	19,45	12,10	9,12	7,47	6,39	5,52	4,87	4,39	4,03	3,70	2,08
1.75V/cell	45,20	33,85	25,10	20,75	12,80	9,61	7,82	6,64	5,71	5,04	4,54	4,15	3,77	2,12
1.70V/cell	48,70	36,25	26,65	22,00	13,55	10,04	8,08	6,85	5,91	5,21	4,67	4,26	3,86	2,14
1.67V/cell	50,65	37,70	27,55	22,85	13,90	10,34	8,28	6,99	6,01	5,29	4,74	4,32	3,90	2,17
1.60V/cell	54,90	40,30	29,60	24,25	14,50	10,78	8,60	7,21	6,15	5,40	4,83	4,41	3,98	2,20

Constant Power Discharge (Watts/cell) at 25°C (77°F)

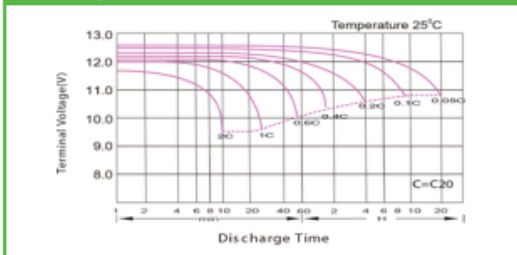
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	67,20	53,10	40,75	34,25	21,85	16,70	13,85	12,00	10,41	9,23	8,34	7,64	7,05	3,98
1.80V/cell	76,00	58,75	44,65	37,60	23,50	17,80	14,65	12,55	10,90	9,61	8,72	8,01	7,35	4,14
1.75V/cell	84,40	64,10	47,90	40,05	24,80	18,75	15,30	13,00	11,25	9,96	8,98	8,24	7,49	4,22
1.70V/cell	89,95	68,00	50,45	42,15	26,20	19,45	15,75	13,40	11,60	10,25	9,23	8,45	7,66	4,26
1.67V/cell	92,60	69,90	51,90	43,45	26,75	20,00	16,05	13,65	11,75	10,40	9,33	8,54	7,74	4,30
1.60V/cell	99,20	74,15	55,35	45,95	27,65	20,75	16,60	14,00	12,00	10,59	9,50	8,71	7,88	4,36

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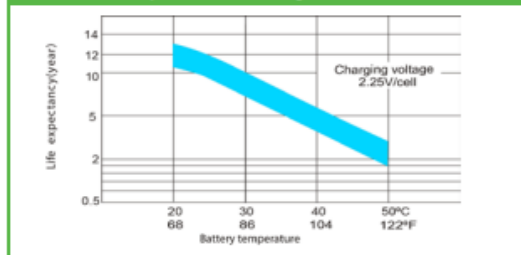
Dimensions



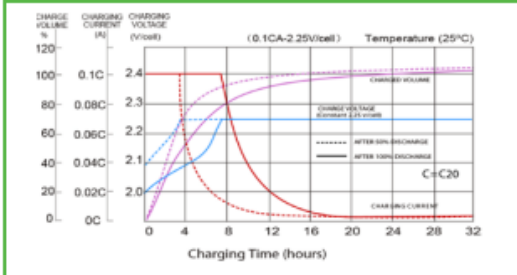
Discharge Characteristics



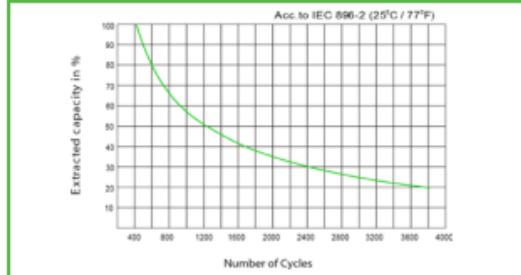
Effect of Temperature on Long Term Float Life



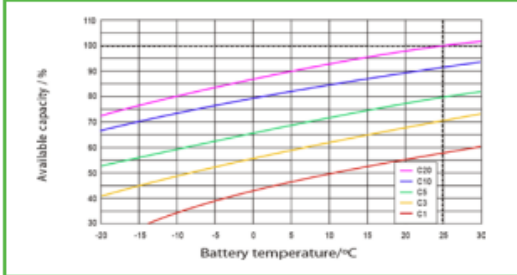
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



General Relation of Capacity VS. Storage Time

