

UP-G45-12



Specification		
Nominal Voltage	12V	
Nominal Capacity (20HR)	45.0AH	
Dimension	Length	257±3mm (10.12 inches)
	Width	132±2mm (5.20 inches)
	Container Height	200±2mm (7.87 inches)
	Total Height (with Terminal)	200±2mm (7.87 inches)
	Approx Weight	Approx 16.2 kg (35.7lbs)
Terminal	T6	
Container Material	ABS	
Rated Capacity	45.0 AH/2.25A	(20hr, 1.80V/cell, 25°C/77°F)
	40.0 AH/4.0A	(10hr, 1.75V/cell, 25°C/77°F)
	36.0 A H/7.2A	(5hr, 1.75V/cell, 25°C/77°F)
	31.2 AH/10.4A	(3hr, 1.75V/cell, 25°C/77°F)
	24.8 AH/24.8A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	450A (5s)	
Internal Resistance	Approx 9.6mΩ	
Operating Temperature Range	Discharge:	-20~55°C (-4~131°F)
	Change :	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 9A.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.	

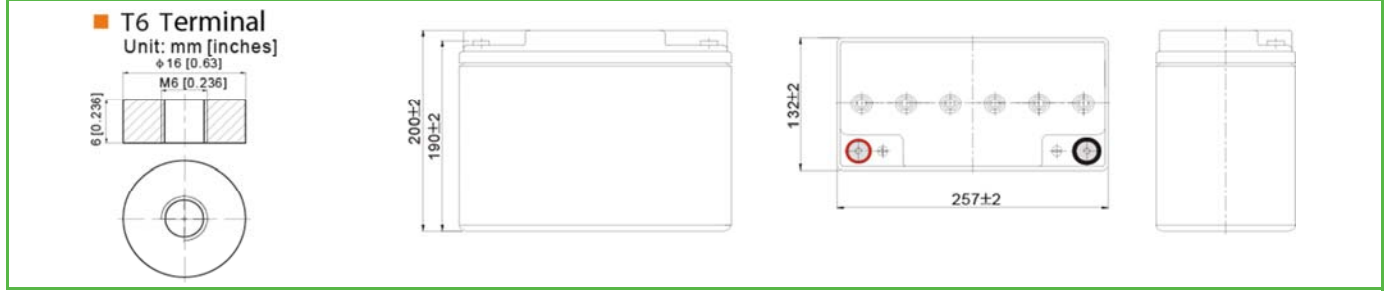
Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	38.1	29.9	22.8	19.1	12.1	9.23	7.64	6.60	5.69	5.04	4.55	4.16	3.75	2.16
1.80V/cell	43.6	33.4	25.1	21.1	13.1	9.89	8.10	6.93	5.98	5.28	4.76	4.37	3.92	2.25
1.75V/cell	49.0	36.7	27.2	22.5	13.9	10.4	8.48	7.20	6.19	5.46	4.92	4.50	4.00	2.30
1.70V/cell	52.8	39.3	28.9	23.9	14.7	10.9	8.76	7.43	6.41	5.64	5.06	4.62	4.09	2.32
1.67V/cell	54.9	40.9	29.9	24.8	15.1	11.2	8.98	7.58	6.51	5.73	5.14	4.68	4.14	2.35
1.60V/cell	59.5	43.7	32.1	26.3	15.7	11.7	9.32	7.81	6.67	5.85	5.23	4.78	4.22	2.38

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	72.9	57.6	44.2	37.1	23.7	18.1	15.0	13.0	11.3	10.0	9.04	8.28	7.49	4.31
1.80V/cell	82.4	63.7	48.4	40.8	25.5	19.3	15.9	13.6	11.8	10.4	9.45	8.68	7.80	4.48
1.75V/cell	91.5	69.5	51.9	43.4	26.9	20.3	16.6	14.1	12.2	10.8	9.73	8.93	7.95	4.57
1.70V/cell	97.5	73.7	54.7	45.7	28.4	21.1	17.1	14.5	12.6	11.1	10.0	9.16	8.13	4.62
1.67V/cell	100.4	75.8	56.3	47.1	29.0	21.7	17.4	14.8	12.7	11.3	10.1	9.26	8.21	4.66
1.60V/cell	107.6	80.4	60.0	49.8	30.0	22.5	18.0	15.2	13.0	11.5	10.3	9.44	8.36	4.72

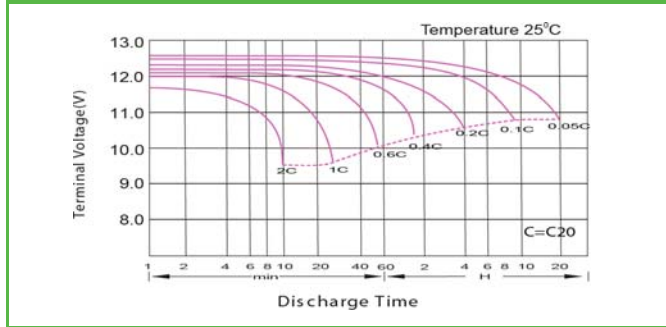


UP-G45-12

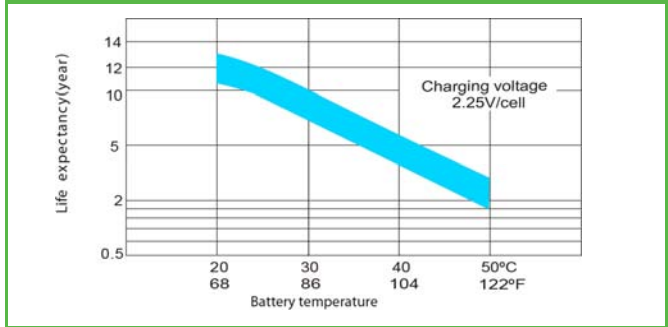
Dimensions



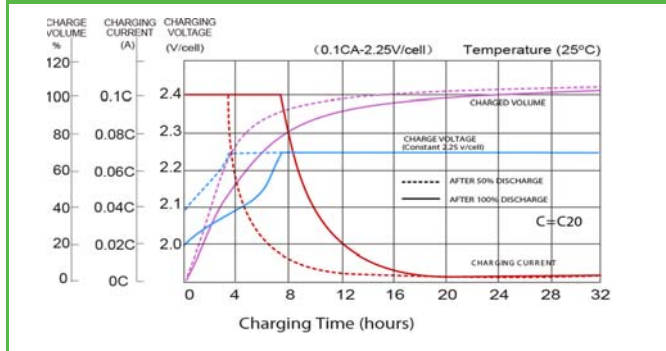
Discharge Characteristics



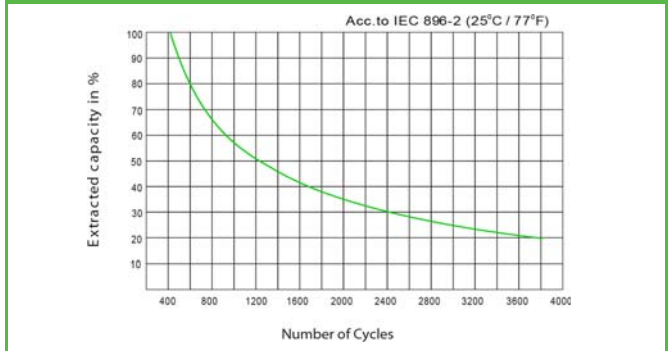
Effect of Temperature on Long Term Float Life



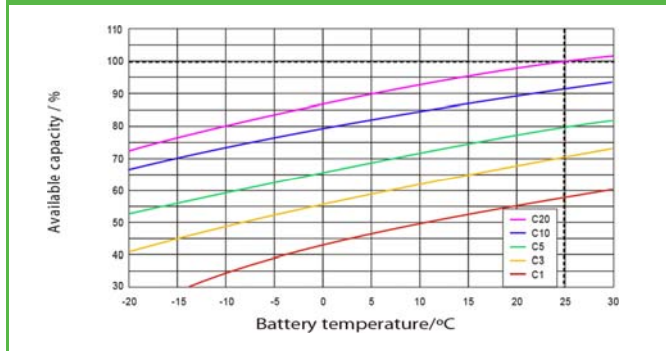
Float Charging Characteristics



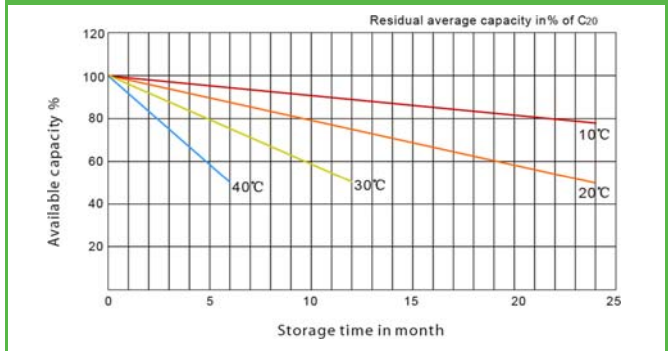
Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



General Relation of Capacity VS. Storage Time



Applus[®] ISO 9001
Applus[®] ISO 14001
MH26866

CE ETS EMC tested

Intertek ETL SEMKO

VdS

