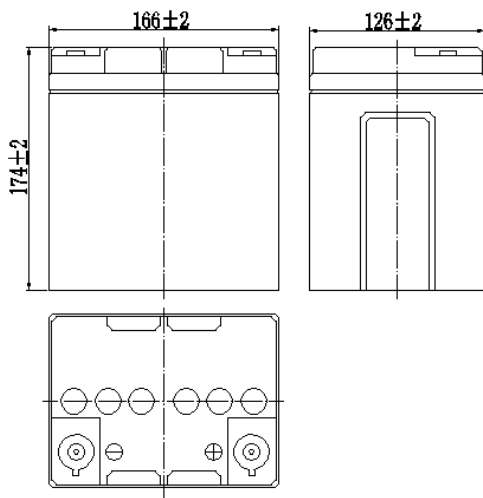


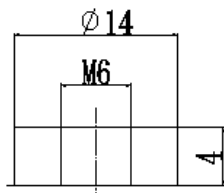
Specifications

Nominal Voltage		12 V
Number of cell		6 cells
Rated capacity(15min.rate)		110 Watts/cell
Dimension	Length	166±2mm (6.54inch)
	Width	126±2mm (4.96inch)
	Height	174±2mm (6.85inch)
	Total Height	174±2mm (6.85inch)
Approx. Weight		8.8kg (19.4lbs)

Dimensions



Terminal



Characteristics

Capacity (10HR, 25℃)		28 Ah / 10.5V
Capacity(15min.rate, 25℃)		110 Watts/cell
Terminal type		T14
Internal resistance (Fully charged, 25℃)		Approx. 9m Ω
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃ ± 3℃(77°F ± 5°F)
Operating temperature range	Discharge	-15℃ ~ 50℃(5°F ~ 122°F)
	Charge	-10℃ ~ 50℃(14°F ~ 122°F)
	Storage	-20℃ ~ 50℃(-4°F ~ 122°F)
Float charging voltage(25℃)		13.50 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃
Maximum charging current		8.4A
Terminal material		Copper
Maximum discharge current		300A(5 sec.)
Designed floating life(20℃)		10 years
Container Material		Flame Retardant ABS(UL 94-V0) Model Name: SPL28-12HR-FR

Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

Constant Current Discharge Characteristics (A, 25°C)

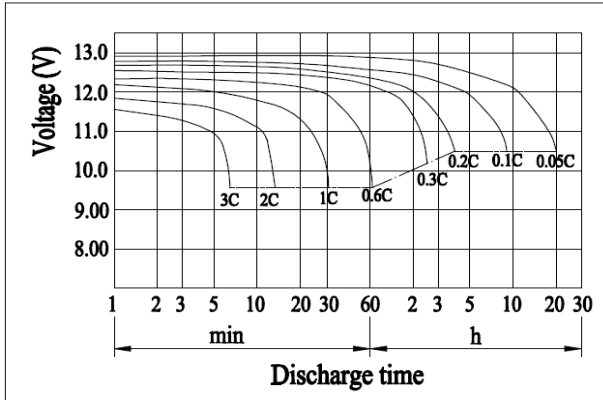
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	119	73.3	57.6	45.6	30.9	22.9	18.7	10.3	7.31	5.88	5.06
1.67V/cell	114	70.0	55.6	43.7	29.9	22.1	18.2	10.2	7.25	5.83	5.01
1.70V/cell	111	68.2	54.1	42.8	29.3	21.7	18.0	10.1	7.22	5.81	4.99
1.75V/cell	106	65.2	52.3	41.4	28.6	21.2	17.6	9.98	7.17	5.77	4.96
1.80V/cell	100	61.6	49.5	39.2	27.6	20.4	17.1	9.73	6.95	5.59	4.81

Constant Power Discharge Characteristics (Watt, 25°C)

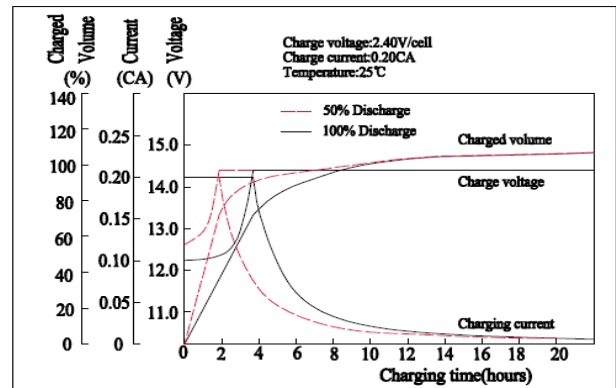
F.V/TIME	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	229	142	114	90.2	61.1	45.3	37.0	20.5	14.7	11.8	10.2
1.67V/cell	218	136	110	86.6	59.2	43.8	36.1	20.3	14.6	11.7	10.1
1.70V/cell	213	132	107	84.8	58.1	43.0	35.5	20.2	14.5	11.7	10.0
1.75V/cell	203	127	104	81.9	56.7	41.9	34.8	19.9	14.4	11.6	9.96
1.80V/cell	192	119	98.0	77.6	54.6	40.4	33.8	19.4	14.0	11.2	9.66

Note: The above characteristics data can be obtained within three charge/discharge cycles.

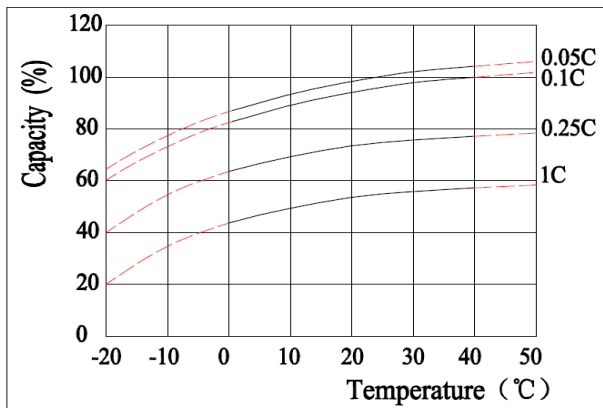
Discharge Characteristics(25°C)



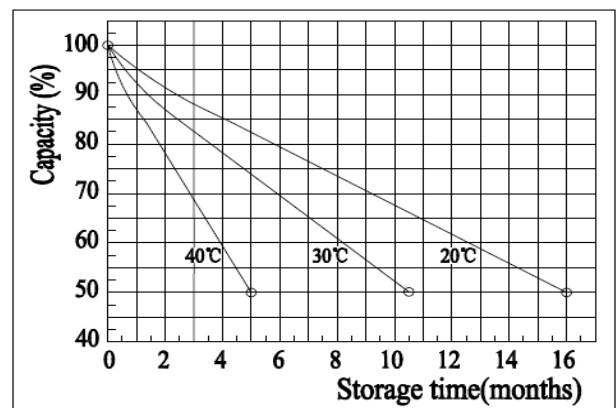
Charging Characteristics(25°C)



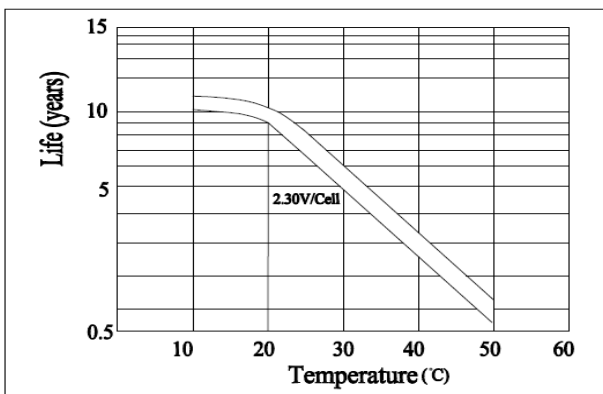
Effect of Temperature on Capacity



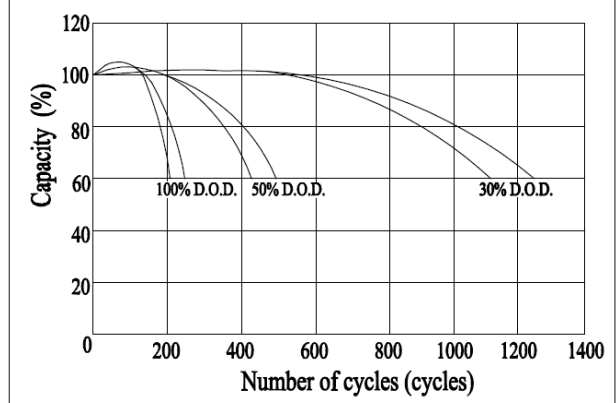
Self-discharge Characteristics



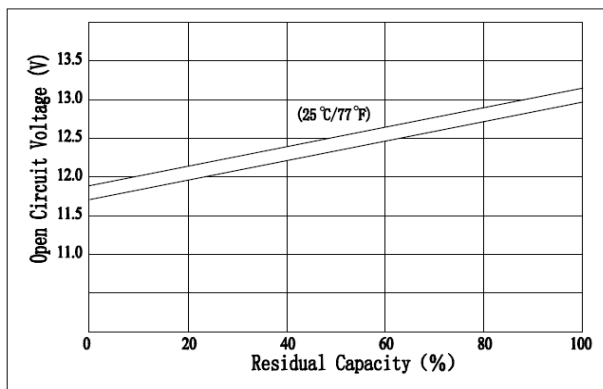
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature

