

B12V24A

BATTERIA AL PIOMBO 12V 24AH



Specification

Nominal Voltage	12V	
Nominal Capacity(10 HR)	24.0AH	
Dimension	Length	166.5 +/- 1mm
	Width	175 +/- 1mm
	Container Height	125 +/- 1mm
	Total Height (with Terminal)	125 +/- 1mm
Approx Weight	Approx 7.8 kg	
Terminal	T3 / T12	
Container Material	ABS	
Rated Capacity	24.0 AH/1.20A	(20hr , 1.80V/cell, 25 °C/77°F)
	22.3 AH/2.23A	(10hr, 1.80V/cell, 25 °C/77°F)
	20.4 AH/4.08 A	(5hr, 1.75V/cell, 25 °C/77°F)
	18.4AH/6.12A	(3hr, 1.75V/cell, 25 °C/77°F)
	15.1 AH/15.1A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	360A(5s)	
Internal Re sistance	Approx 14m Ω	
Operating Temp. Range	Discharge :	-15~50°C (5 ~122°F)
	Charge :	0 ~ 40°C (32 ~104°F)
	Storage :	-15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range	25+/-3°C (77+/- 5° F)	
Cycle Use	Initial Charging Current less than 19.5A. Voltage	
	14.4V~15.0V at 25°C(77°F) Temp. Coefficient-30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	000 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	this batteries may be stored for up to 6 months	
	at 25°C (77°F) and then a freshening charge is required.	
	For higher temperatures the time interval will be s horter.	

Constant Current Discharge(Amperes) at25°C(77°F)

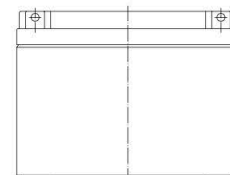
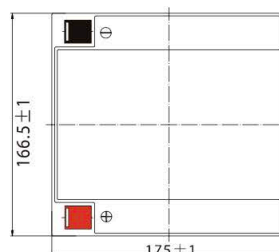
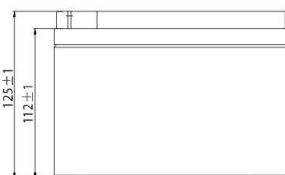
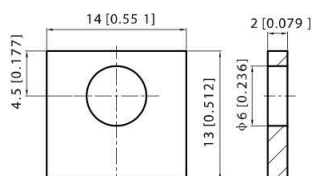
F.V/Tim e	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.8 5V /cell	45.7	35.1	29.1	25.1	19.4	14.32	12.07	7.14	5.58	4.54	3.70	3.21	2.59	2.16	1.19
1.8 0V /cell	61.3	44.8	35.1	29.7	22.9	16.7	13.52	7.79	6.01	4.85	3.97	3.45	2.75	2.23	1.20
1.7 5V /cell	69.2	49.3	38.4	32.0	23.8	17.3	14.14	8.08	6.12	4.96	4.08	3.54	2.80	2.29	1.21
1.7 0V /cell	76.2	53.7	41.0	33.6	24.8	18.0	14.59	8.28	6.29	5.09	4.18	3.61	2.84	2.34	1.23
1.6 5V /cell	84.0	58.0	43.6	35.7	26.1	18.4	14.93	8.40	6.56	5.26	4.30	3.69	2.88	2.39	1.25
1.6 0V /cell	92.6	62.9	46.6	38.0	27.6	19.2	15.07	8.76	6.76	5.43	4.44	3.77	2.91	2.41	1.26

Constant power Discharge(Watts) at25°C(77°F)

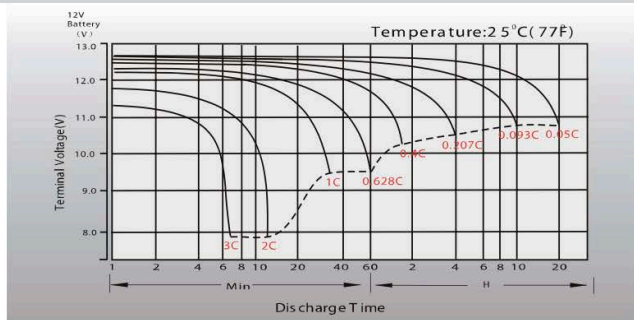
F.V/Tim e	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	83.6	64.8	54.3	47.4	37.0	27.5	23.3	13.9	10.9	8.88	7.26	6.32	5.12	4.28	2.35
1.80V/cell	111.0	81.9	64.7	55.2	43.0	31.8	25.9	15.0	11.6	9.43	7.76	6.75	5.41	4.41	2.37
1.75V/cell	122.5	88.5	69.8	58.8	44.3	32.6	27.0	15.5	11.8	9.60	7.93	6.91	5.49	4.52	2.39
1.70V/cell	131.1	94.3	73.4	61.3	45.9	33.8	27.8	15.9	12.1	9.84	8.12	7.04	5.56	4.61	2.44
1.65V/cell	142.5	100.8	77.5	64.7	48.0	34.4	28.2	16.0	12.6	10.1	8.32	7.18	5.64	4.70	2.47
1.60V/cell	153.6	107.0	81.5	68.1	50.3	35.6	28.3	16.6	12.9	10.4	8.56	7.31	5.68	4.74	2.48

Dimensions

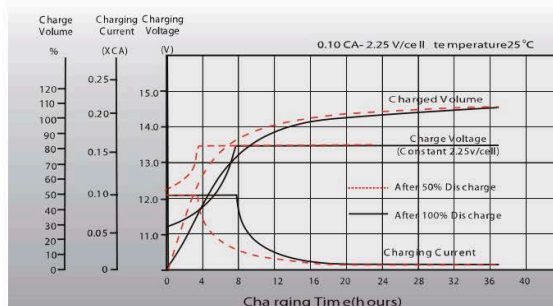
T3 Terminal Unit: mm [inches]



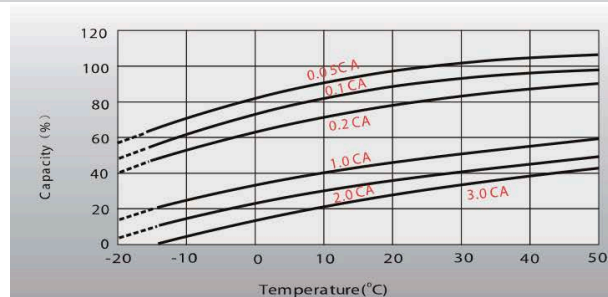
Discharge Characteristics



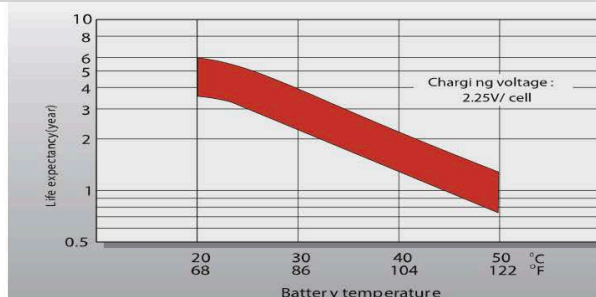
Float Charging Characteristics



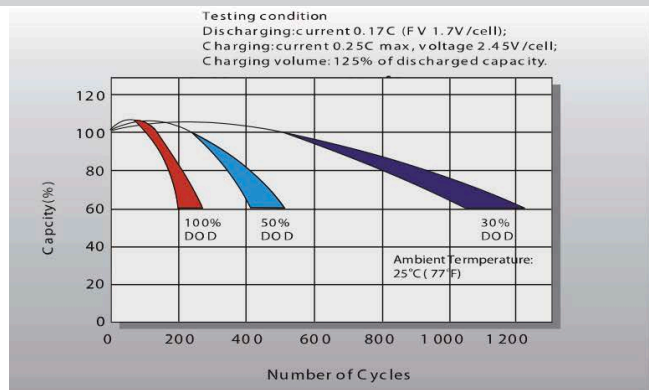
Temperature Effects in Relation to Battery Capacity



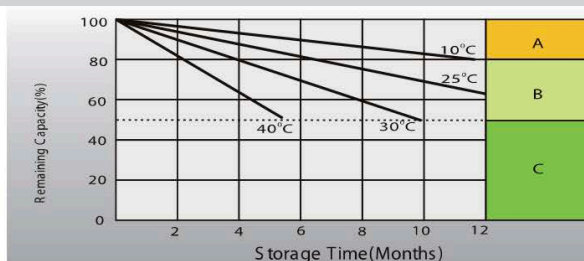
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charging required.
(Carry out supplementary charging before use if 100% capacity is required.)

B Supplementary charging required before use. Optimal charging ways as below:
1.Charged for a above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2.Charged for a above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3.Charged for 8 ~10 hours at limited current 0.05 CA.

C Supplementary charging may often fail to recover the capacity.
The battery should never be left standing until this is reached.

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