OFERTA ECONOMICA

NOTA 1: DEBERA DILIGENCIAR LA MATRIZ TENIENDO EN CUENTA TODOS LOS COSTOS DIRECTOS, INDIRECTOS Y TRIBUTOS A LOS QUE HAYA LUGAR

NOTA 2: DEBERA TENER EN CUENTA LAS ESPECIFICACIONES TECNICAS RELACIONADAS EN LOS DOCUMENTOS PREVIOS ANEXOS A LA PRESENTE SOLICITUD

NOTA 3: LA NO PRESENTACIÓN DE ESTE DOCUMENTO SERA CAUSAL DE RECHAZO YA QUE HACE PARTE INTEGRAL DEL VALOR PRESENTADO

ITEM	DESCRIPCION DEL BIEN O SERVICIO	UNIDAD DE MEDIDA O PRESENTACIÓN	CANTIDAD	VALOR UNITARIO	% IVA (Si no aplica coloque 0)	VALOR UNITARIO CON IVA	TOTAL CON IVA
	Adquisicion de banco de baterias para 9 nueve UPS del Hospital Departamental Psiquiatrico Universitario del Valle						
1	BANCO DE BATERIA INTERNAS -12 VOLTIOS 5 AMPERIOS PARA UPS TRIPPLITE 6000VA	**UND**	**16**	**$ 75.592**	**19%**	**$ 89.954**	**$ 1.439.265**
2	BANCO DE BATERIA INTERNAS -12 VOLTIOS 5 AMPERIOS PARA UPS TRIPPLITE 10Kva	**UND**	**16**	**$ 78.717**	**19%**	**$ 93.673**	**$ 1.498.765**
3	BANCO DE BATERIA INTERNAS -12 VOLTIOS 5 AMPERIOS PARA UPS TRIPPLITE 6Kva	**UND**	**32**	**$ 69.633**	**19%**	**$ 82.864**	**$ 2.651.637**
4	BANCO DE BATERIA INTERNAS -12 VOLTIOS 7 AMPERIOS PARA UPS SPECTRONIC 10Kva	**UND**	**40**	**$ 116.758**	**19%**	**$ 138.942**	**$ 5.557.697**
5	BANCO DE BATERIA INTERNAS -12 VOLTIOS 7 AMPERIOS PARA UPS POWEST TITAN 1Kva	**UND**	**6**	$ 133.425	**19%**	**$ 158.776**	**$ 952.655**
VALOR TOTAL DEL BIEN O SERVICIO							**$ 12.100.019**

Se debe de realizar la instalación y puesta en marcha de las nuevas baterías

NETION - Óptimo Voltaje

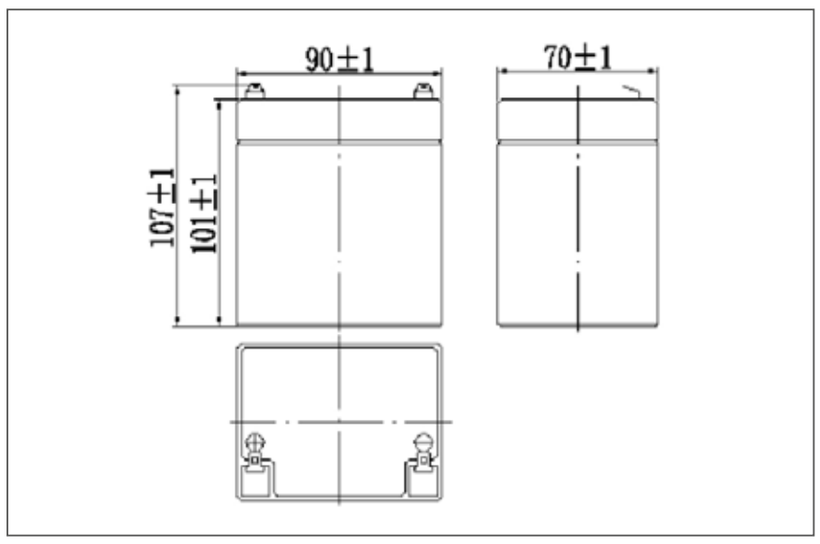
Batería AGM 12V-5AH



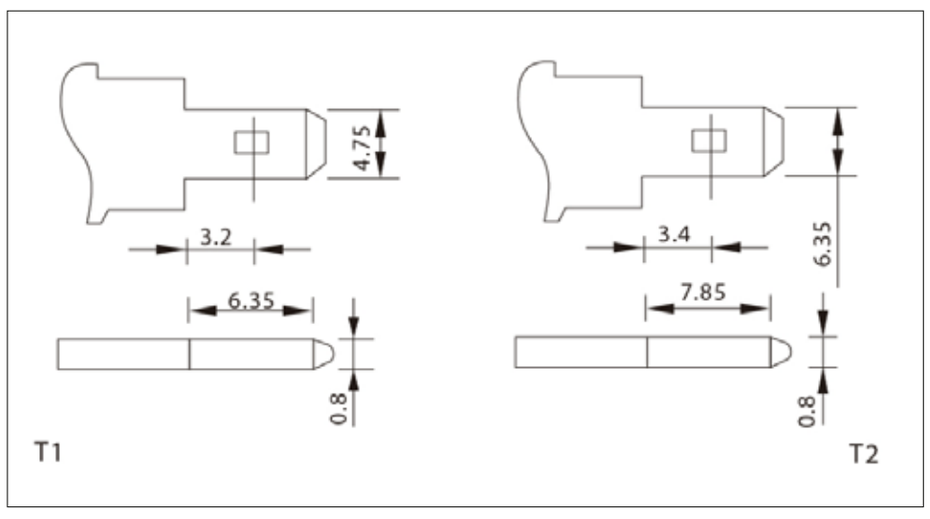
● Especificaciones

Voltaje Nominal		12 V
Capacidad Nominal (índice de 10 horas)		5Ah
Dimensiones	Largo	90 ± 2mm
	Ancho	69 ±2mm
	Altura	100 ±2mm
	Altura Total	107 ±2mm
Peso Aproximado		1.5kg ± 3%

● Dimensiones Externas



● Tipo de Terminal



● Características

Capacidad (25 °C)	10 HR (10. 8 V)	5 Ah
	3 HR (10. 8 V)	4.7 Ah
	1 HR (10. 5 V)	3 Ah
Tipo de Terminal		T 1 / T2
Resistencia Interna Carga Completa (25 °C)		Aprox 27m Ω
Capacidad afectada por la temperatura (10 HR)	40 °C	102%
	25 °C	100%
	0 °C	85%
	- 15 °C	65%
Auto descarga (25ºC)	3 Meses	Capacidad Restante : 91%
	6 Meses	Capacidad Restante : 82%
	12 Meses	Capacidad Restante : 65%
Temperatura Nominal de Funcionamiento		25ºC ± 3 ºC (77 ºF ± 5ºF)
Rango de Temperatura de Funcionamiento	Descarga	-15 ºC~50 ºC (5 ºF ~122 ºF)
	Carga	-10 ºC~50 ºC (14ºF ~122 ºF)
	Almacenamiento	-20 ºC ~50 ºC (-4 ºF~ 122 ºF)
Tensión de Carga de Mantenimiento		13.50 to 13.80V Compensación de Temperatura : -18mV/ºC
Voltaje de carga cíclico (25 ºC)		14.50 to 15.00V Compensación de Temperatura: -30mV/ºC
Corriente de Carga Máxima		1.5A
Corriente de Descarga Máxima		75A (5 sec.)
Vida Flotante Diseñada		5 años

● Construcción

Componente	Placa Positiva	Placa Negativa	Contenedor	Cubierta	Separador	Electrólito	Válvula de Seguridad	Terminal
Materia Prima	Dióxido de Plomo	Plomo	ABS	ABS	AGM	Ácido Sulfurico	Caucho	Cobre

● Características de descarga de corriente constante : A (25 ºC , 77 ºF)

F.V / Time	5 min	10 min	15 min	30 min	60 min	2 h	3 h	4 h	5 h	10 h	20 h
9.60 V	19.1	12.1	9.45	5.33	3.28	1.79	1.24	1.03	0.87	0.47	0.25
9.90 V	18.5	11.7	9.22	5.22	3.23	1.78	1.23	1.02	0.87	0.47	0.25
10.2 V	17.8	11.3	8.88	5.06	3.14	1.77	1.22	1.01	0.86	0.47	0.25
10.5 V	17.0	10.8	8.58	4.94	3.08	1.74	1.22	1.01	0.86	0.47	0.25
10.8 V	16.0	10.2	8.13	4.76	2.99	1.69	1.13	0.97	0.83	0.46	0.25

● Características de descarga de potencia constante : W (25 °C, 77 °F)

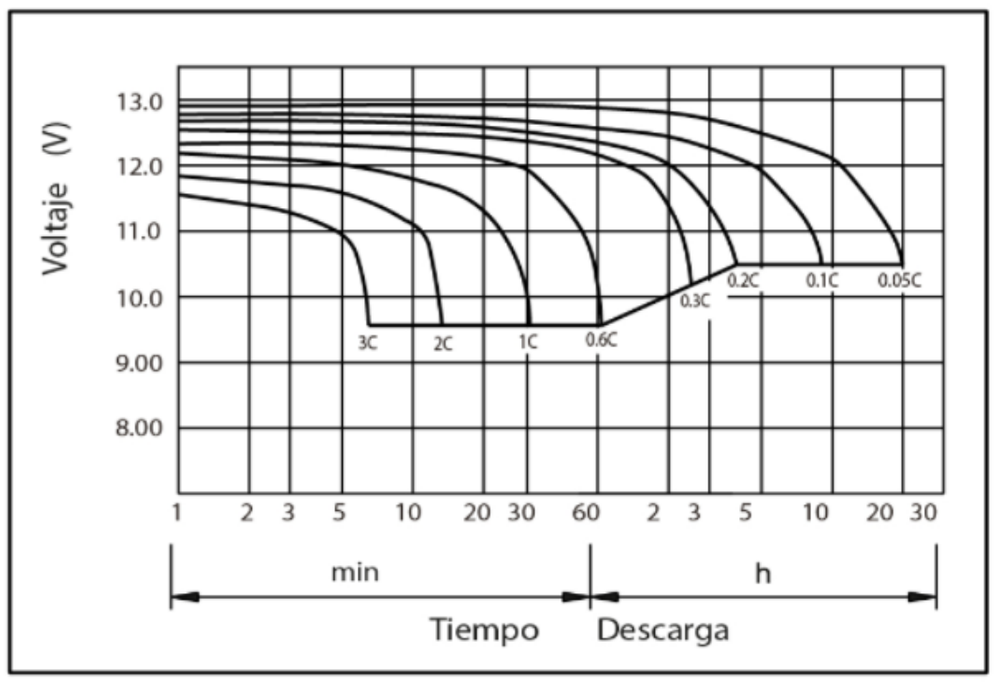
F.V / Time	5 min	10 min	15 min	30 min	60 min	2 h	3 h	4 h	5 h	10 h	20 h
9.60 V	213	136	108	61.0	37.9	21.0	14.7	12.2	10.4	5.68	3.05
9.90 V	207	132	105	59.9	37.4	20.8	14.6	12.1	10.4	5.66	3.03
10.2 V	198	127	101	58.0	36.4	20.7	14.5	12.1	10.3	5.63	3.02
10.5 V	190	121	97.8	56.6	35.7	20.3	14.4	12.0	10.2	5.60	3.00
10.8 V	179	115	92.6	54.5	34.8	19.8	14.0	11.6	9.90	5.49	2.94

*Nota: Los datos de características anteriores pueden obtenerse dentro de tres ciclos de carga o descarga.

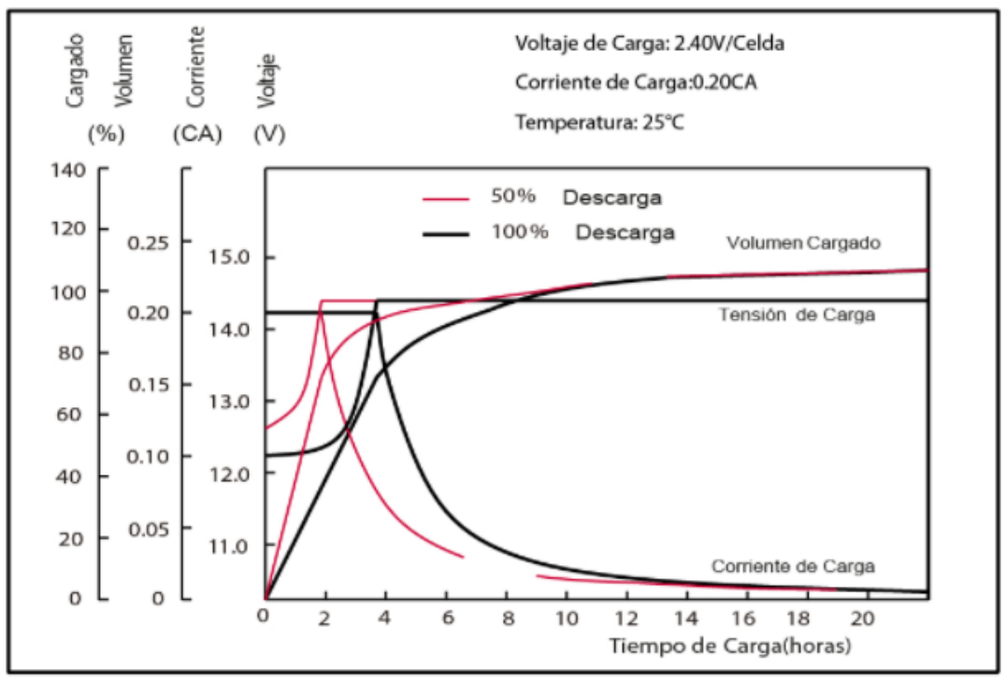
NETION - Óptimo Voltaje

Batería AGM 12V-5AH

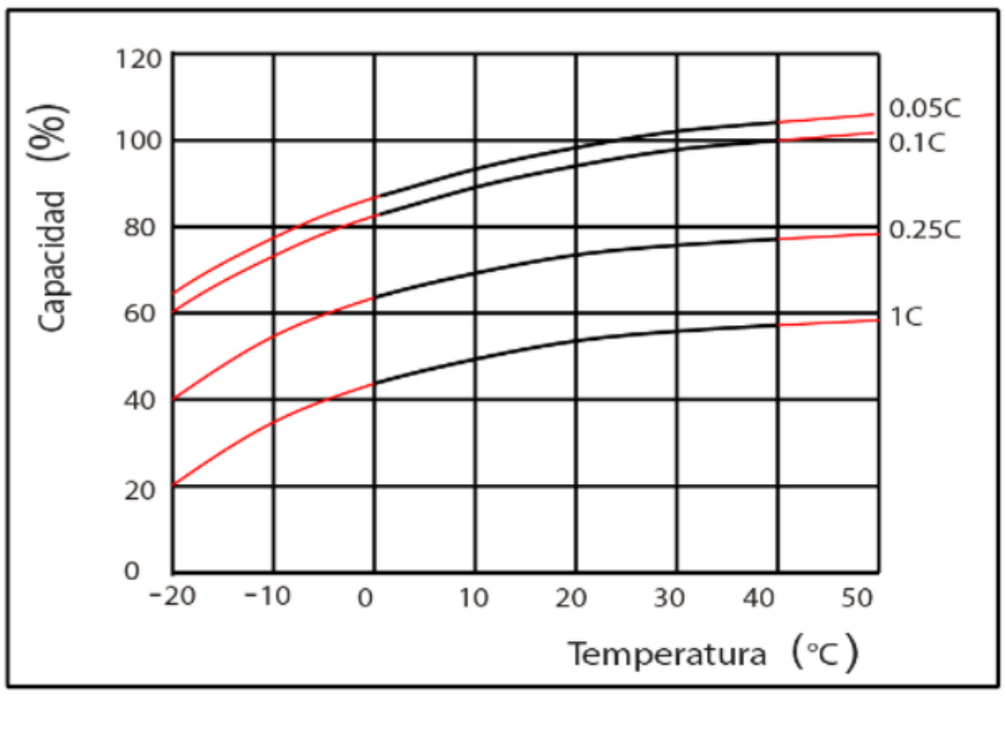
● Características de descarga (25°C)



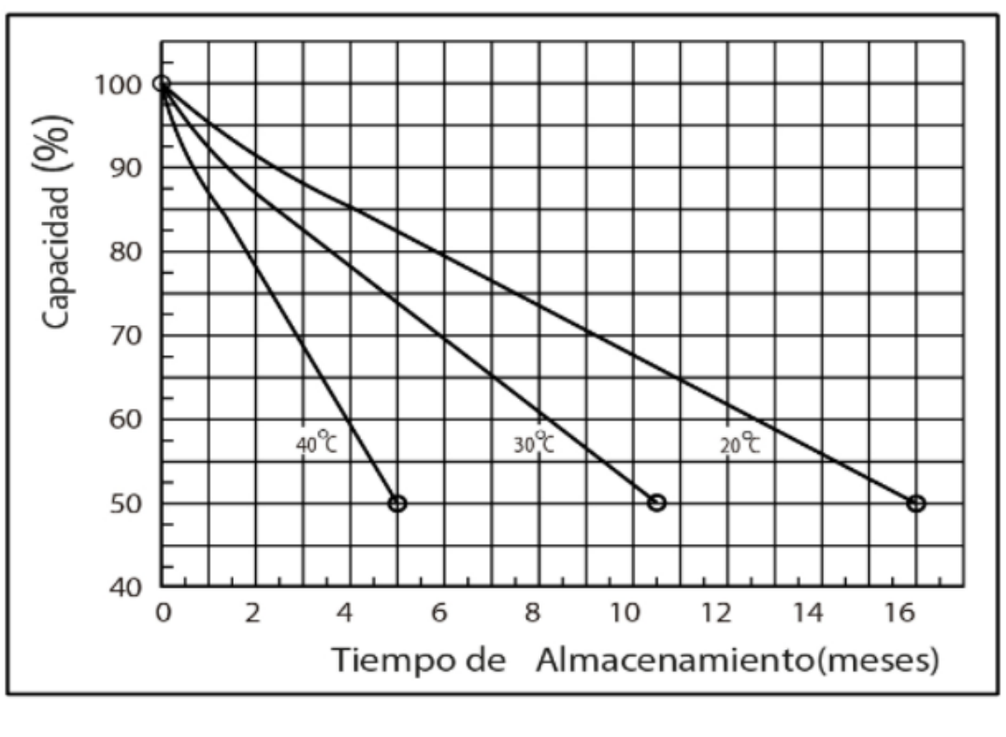
● Características de Carga (25°C)



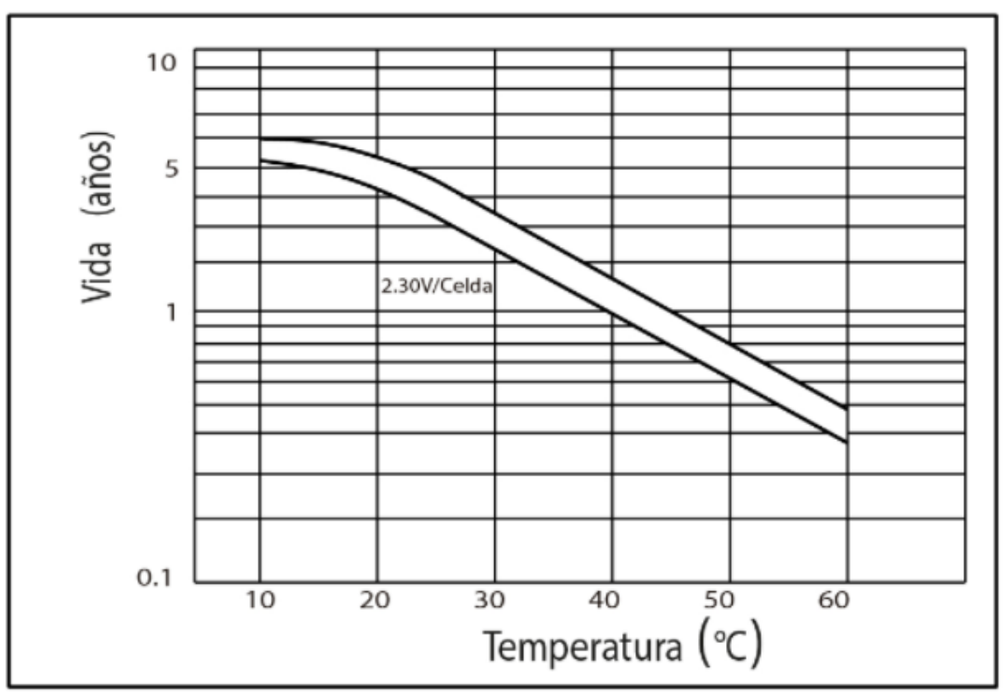
● Efectos de temperatura en la capacidad



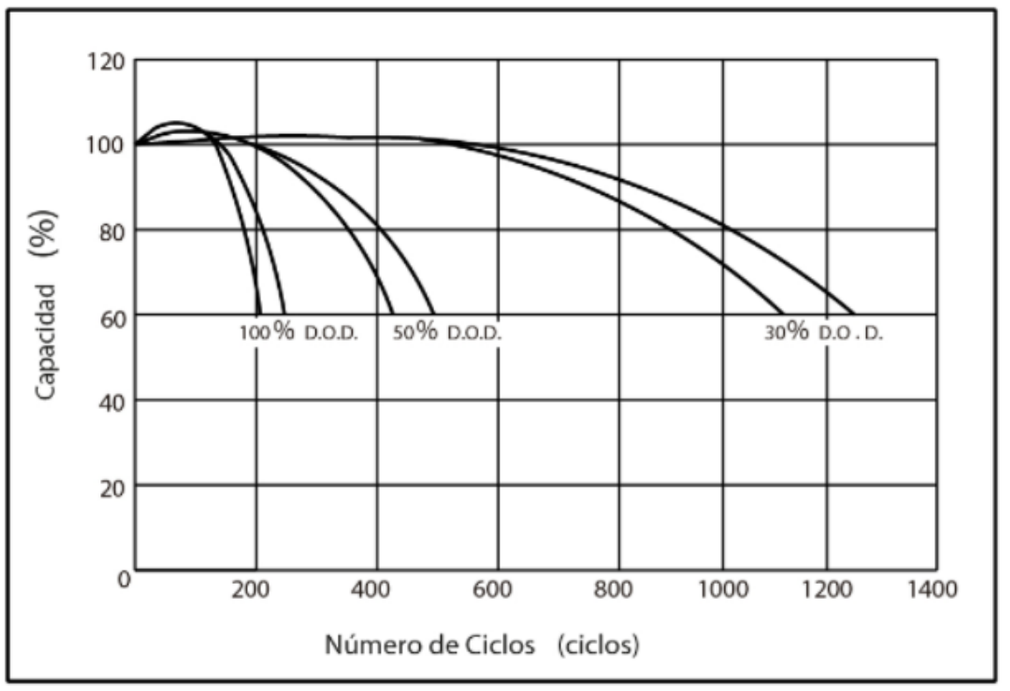
● Características de autodescarga



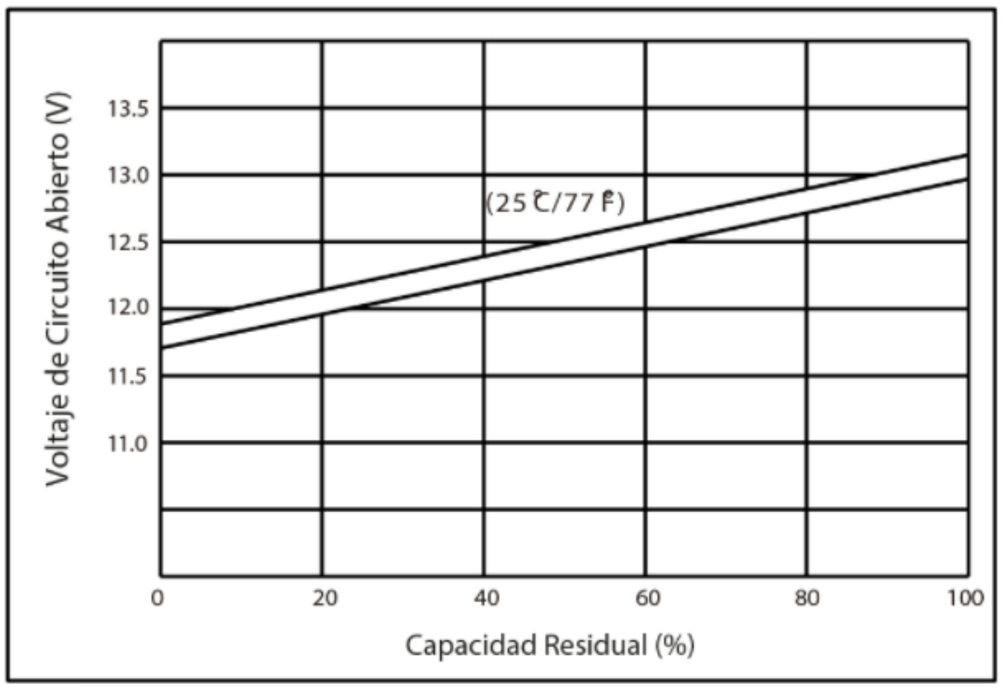
● Vida flotante en la temperatura



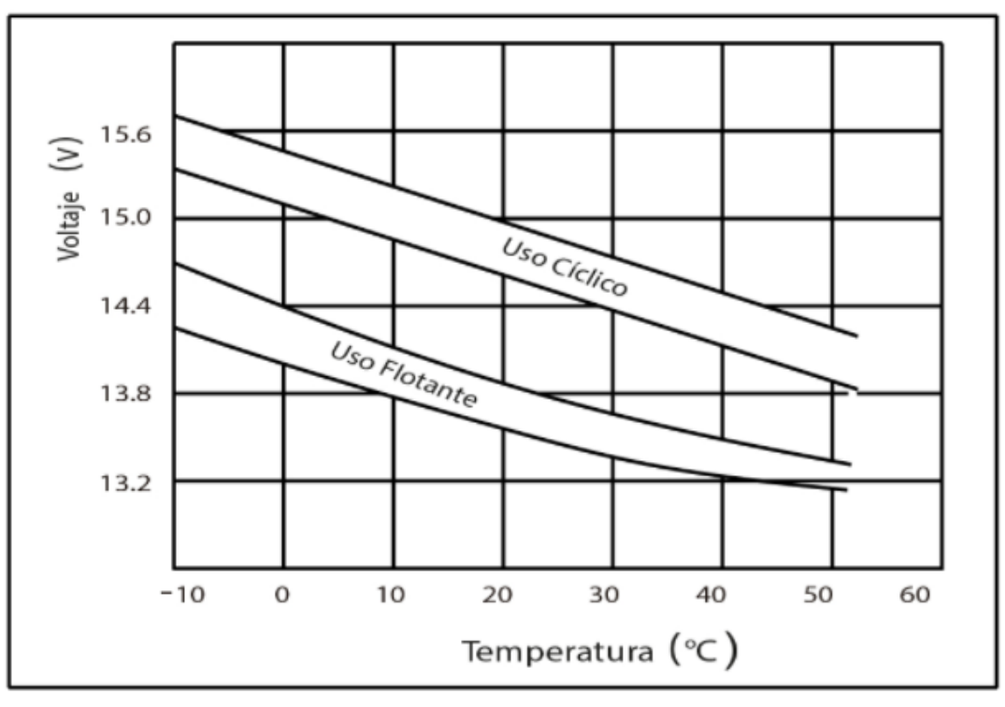
● Ciclo de vida en D.O.D (25 °C)



● La relación para OCV y Capacidad (25 °C)



● La relación de voltaje de carga y temperatura



Powered by

BATTERY ®

GP 1272 ▶ 12V 7.2Ah

GP 1272 is a general purpose battery up to 5 years in standby service or more than 260 cycles at 100% discharge in cycle service. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



▶ Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.2Ah @ 20hr-rate to 1.75V per cell @25°C (77°F)
Weight	Approx. 2.4 kg(5.29 lbs)
Maximum Discharge Current	100A/130A(5sec)
Internal Resistance	Approx. 23 mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15°C~40°C (5°F~104°F) Storage: -15°C~40°C (5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	2.16A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	CSB Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	F1/F2-Faston Tab187/250
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

MH14533

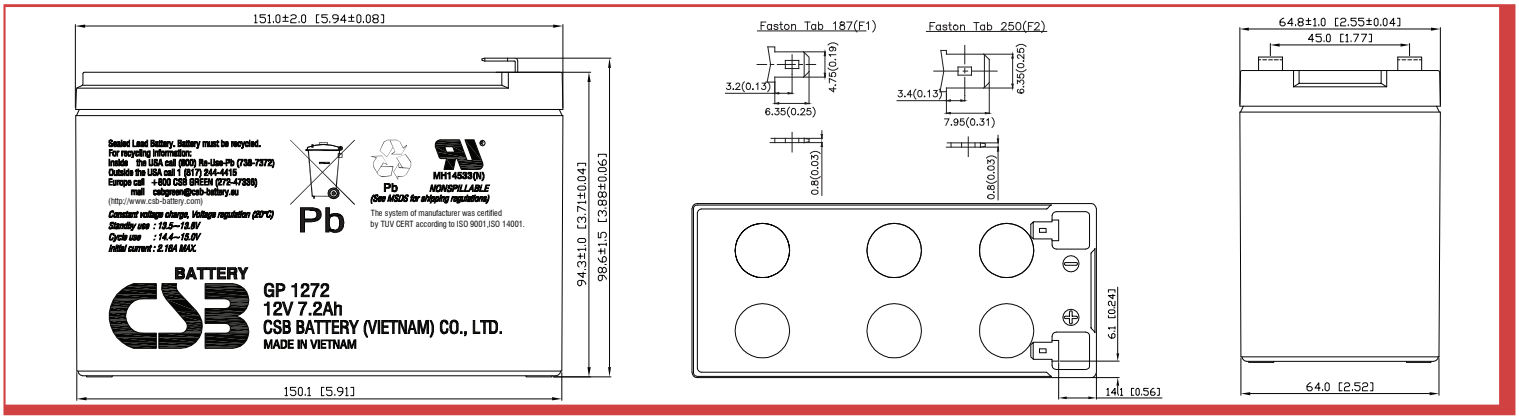
CSB-manufactured VRLA (**A**bsorbent **G**lass **M**at type) batteries are UL-recognized components under UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

▶ Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
98.6±1.5 (3.88±0.06)	94.3±1 (3.71±0.04)	151±2 (5.94±0.08)	64.8±1 (2.55±0.04)



Constant Current Discharge Characteristics Unit:A (25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	35.6	22.0	16.5	9.61	5.51	3.92	3.08	2.13	1.34	0.92	0.77	0.45
1.67V	33.1	21.0	15.9	9.36	5.41	3.85	3.02	2.08	1.31	0.90	0.76	0.44
1.70V	31.9	20.5	15.6	9.24	5.37	3.82	3.00	2.06	1.30	0.89	0.75	0.43
1.75V	29.6	19.6	15.1	9.03	5.30	3.77	2.96	2.02	1.27	0.88	0.74	0.42
1.80V	27.2	18.6	14.4	8.77	5.23	3.71	2.91	1.98	1.25	0.87	0.73	0.42
1.85V	24.5	17.4	13.7	8.44	5.14	3.66	2.87	1.95	1.22	0.86	0.71	0.40

Constant Power Discharge Characteristics Unit:W (25°C,77°F)

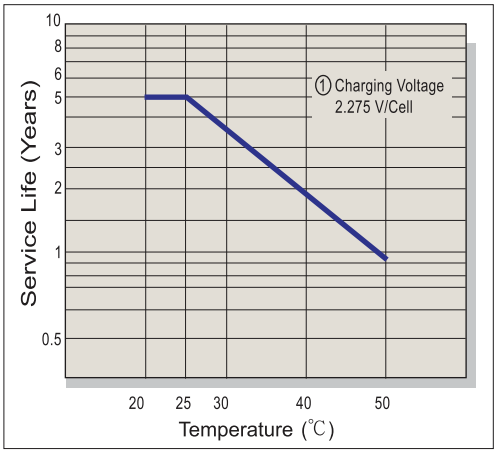
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	360	245	183	108	64.4	47.1	37.7	26.6	17.3	11.8	9.80	5.37
1.67V	340	235	177	106	63.6	46.4	37.1	26.3	17.0	11.6	9.68	5.27
1.70V	331	231	174	105	63.1	46.1	36.9	26.2	16.9	11.5	9.54	5.23
1.75V	313	222	170	103	62.4	45.5	36.4	25.9	16.7	11.4	9.47	5.15
1.80V	295	213	165	101	61.7	45.0	35.9	25.6	16.5	11.3	9.40	5.07
1.85V	276	202	158	99	60.8	44.3	35.4	25.2	16.3	11.2	9.29	4.99

Ratings presented herein are subject to revision without notice. Please refer to www.csb-battery.com to confirm the latest version.

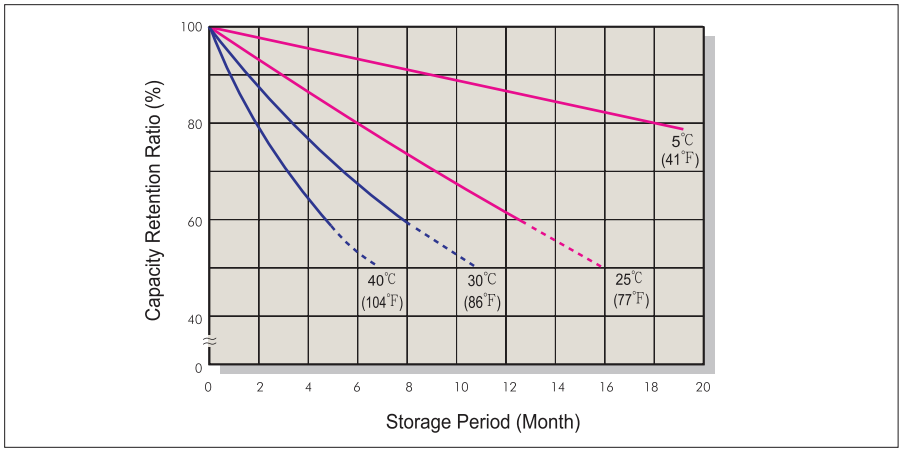
GP1272

12V 7.2Ah

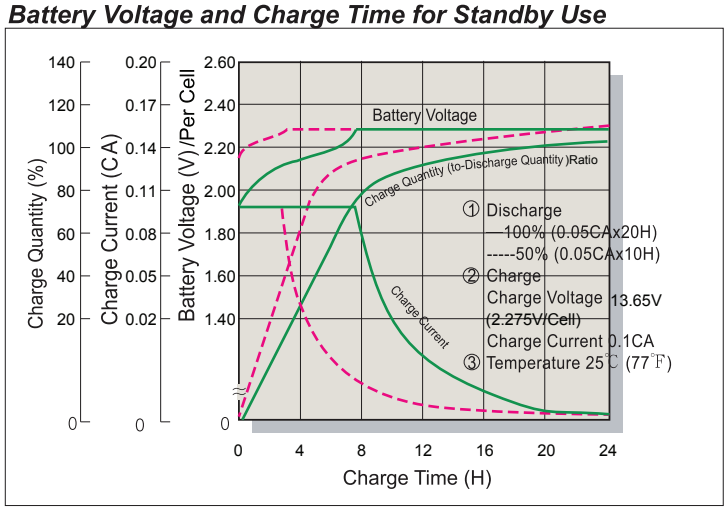
Trickle (or Float) Service Life



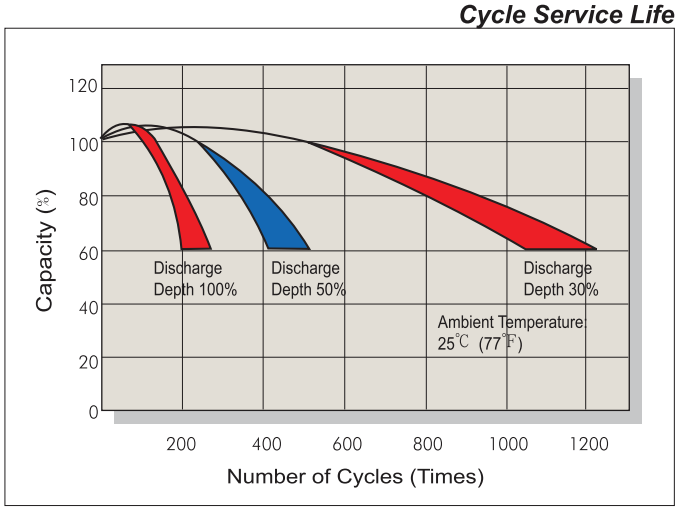
Capacity Retention Characteristic



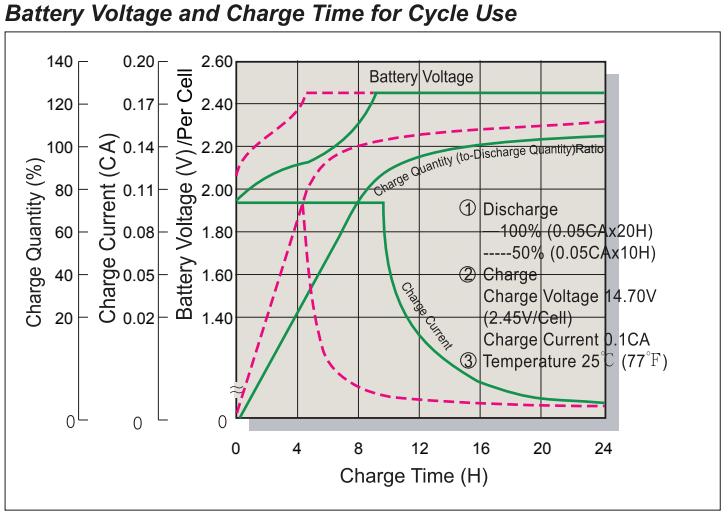
Battery Voltage and Charge Time for Standby Use



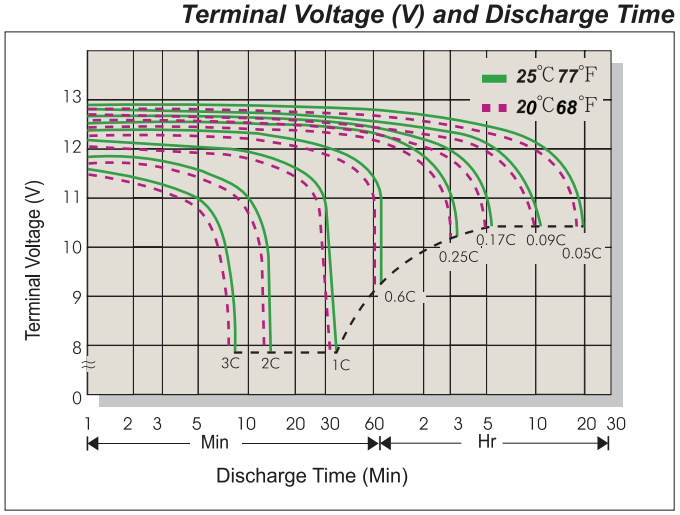
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25℃(77℉)	2.45	2.40~2.50	0.3C
Standby	25℃(77℉)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

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