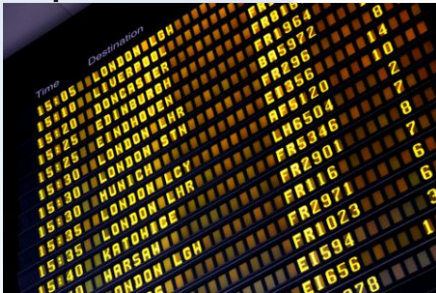


VRLA - Sealed Maintenance-Free**XMB 12-09ES 12V/9AH (18h)****VRLA-AGM BATTERIES**

Las baterías XMB conforman una familia de baterías de ácido plomo tipo VRLA de descarga profunda de excelente calidad, rendimiento extraordinario y un amplio rango de aplicaciones. Han sido diseñadas para cumplir con los más exigentes estándares mundiales de calidad, seguridad y rendimiento, usando tecnología punta. Son 100% libres de mantenimiento y selladas para una operación sin fugas. Usan tecnología AGM para una eficiente recombinación de gases hasta de 99%.

APLICACIONES PRINCIPALES**Telecom****Sistemas de Seguridad****Luminaria de Emergencia****Respaldo de Sistemas Críticos****UPS/SAI****Inversores AC/DC****CARACTERÍSTICAS**

- Baterías selladas de libre mantenimiento
- Separadores AGM y placas planas
- Opciones en terminales de conexión
- Caja de ABS de alto impacto (UL94-HB)
- Recarga rápida
- Auto descarga inferior al 3.5%/mes

VENTAJAS

- Temperatura de operación: -0 to +50°C
- Tiempo de vida: 6 a 8 años (@ 20°C)
- Tiempo de vida en cantidad de ciclos:
 - > 1500 ciclos a 30% DOD
 - > 600 ciclos a 50% DOD
 - > 300 ciclos a 100% DOD
- Alto rendimiento a bajas temperaturas

VRLA - SEALED MAINTENANCE-FREE BATTERY

XMB 12-09ES



TECHNICAL SPECIFICATIONS / Especificaciones Técnicas

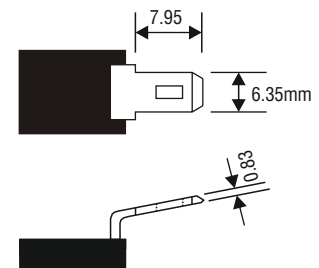
Nominal Voltage	12V	
Nominal Capacity (18hr)	9.0AH	
Dimension	Lenght	151 +/- 1mm
	Width	65 +/- 1mm
	Container Height	94.5 +/- 1mm
	Total Height (with terminals)	100 +/- 1mm
Approx Weight	Approx. 2.25 Kg (5.00 lb)	
Terminal	T2 (T1 optional)	
Container Material	ABS	
Rated Capacity	9.00 AH / 0.450A	(18hr, 1.75V/cell, 25°C/77°F)
	7.57 AH / 0.757 A	(10hr, 1.75V/cell, 25°C/77°F)
	7.00 AH / 1.40A	(5hr, 1.75V/cell, 25°C/77°F)
	4.88 AH / 4.88A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	80A (5s)	
Internal Resistance	Approx. 18 mili Ohm	
Operating Temperature Range	Discharge:	-20°C to 60°C (-4 to 140°F)
	Charge:	0°C to 50°C (32 to 122°F)
	Storage:	-20°C to 60°C (-4 to 140°F)
Normal Operating Temp. Range	25°C +/- 3°C (77°F +/- 5°F)	
Cycle Use	Initial Charging Current less than 2.4 A.	
	Voltage 14.6V-14.8V at 25°C. Temp coefficient -24mV/°C	
Standby Use	Initial Charging Current less than 2.4 A.	
	Voltage 13.7V - 13.9V at 25°C. Temp. coefficient -18mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%



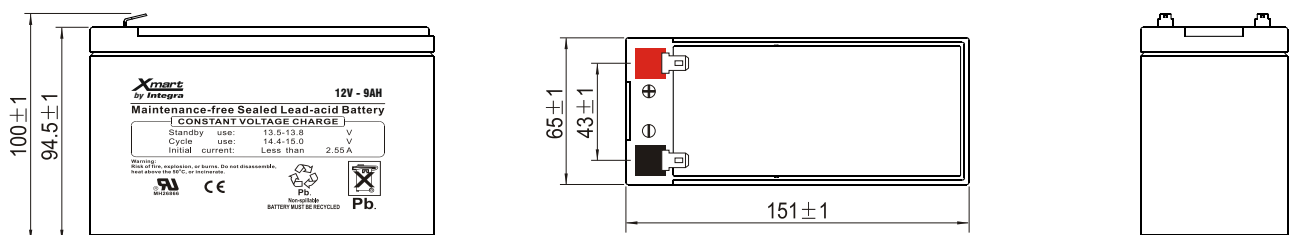
Aplicaciones

- UPS
- Inversores AC/DC
- Luminaria de emergencia
- Sistemas de comunicación
- Fuentes DC
- Equipos electrónicos
- Sistemas de respaldo en general

TERMINAL T2 / Terminal T2



DIMENSIONS / Dimensiones



VRLA - SEALED MAINTENANCE-FREE BATTERY XMB 12-09ES



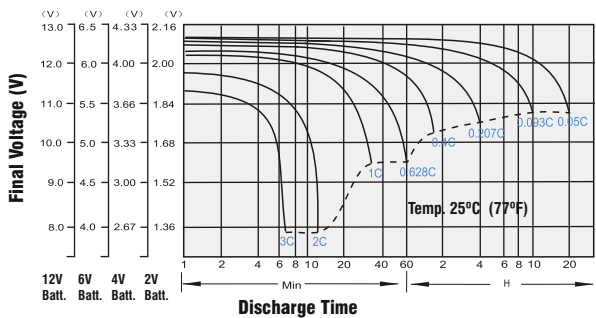
CONSTANT DISCHARGE / Descarga Constante (Amps at 25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V/cell	30.35	21.45	15.51	8.91	4.89	3.00	2.26	1.82	1.51	0.97	0.79	0.42
1.65V/cell	28.23	20.27	14.83	8.55	4.72	2.91	2.19	1.77	1.47	0.96	0.78	0.41
1.70V/cell	25.47	18.66	13.89	8.17	4.57	2.81	2.13	1.72	1.43	0.95	0.77	0.41
1.75V/cell	22.82	17.08	12.92	7.81	4.40	2.71	2.06	1.68	1.40	0.93	0.76	0.40
1.80V/cell	20.03	15.46	11.93	7.47	4.23	2.61	2.00	1.63	1.36	0.92	0.75	0.40
1.85V/cell	15.90	12.64	9.90	6.43	3.80	2.40	1.85	1.52	1.27	0.86	0.70	0.38

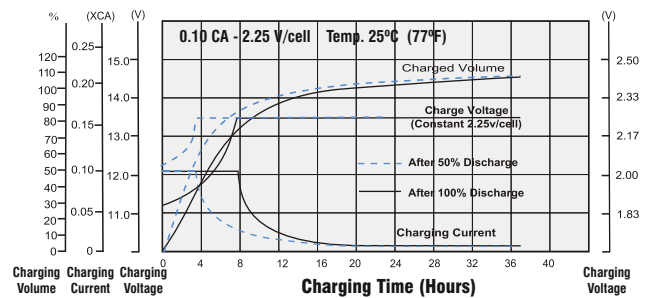
CONSTANT DISCHARGE / Descarga Constante (Watts/Cell at 25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V/cell	50.32	36.46	27.11	16.18	9.19	5.69	4.31	3.50	2.91	1.90	1.55	0.82
1.65V/cell	47.33	35.12	26.30	15.69	8.92	5.53	4.19	3.42	2.84	1.88	1.53	0.81
1.70V/cell	43.68	32.93	25.00	15.15	8.69	5.38	4.10	3.33	2.78	1.86	1.51	0.80
1.75V/cell	40.00	30.68	23.61	14.63	8.42	5.22	3.99	3.26	2.72	1.83	1.50	0.79
1.80V/cell	35.87	28.26	22.10	14.12	8.14	5.06	3.88	3.18	2.66	1.81	1.48	0.78
1.85V/cell	29.07	23.51	18.60	12.29	7.35	4.66	3.61	2.97	2.49	1.70	1.39	0.75

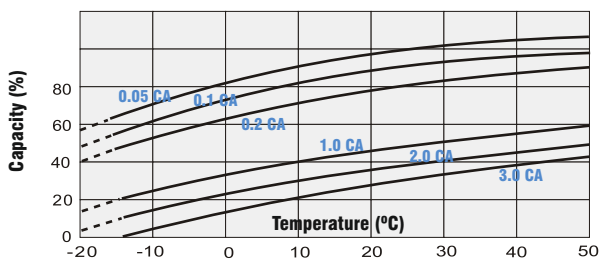
DISCHARGE CURVES / Curvas de Descarga



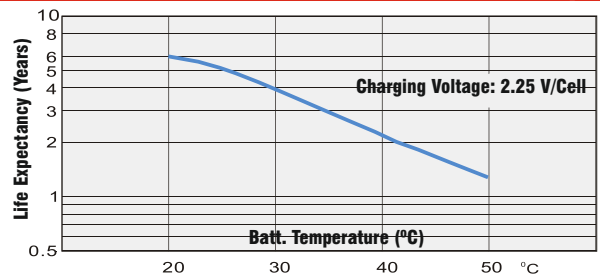
RECHARGING / Recarga



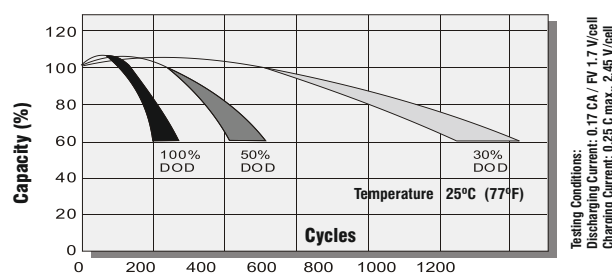
CAPACITY Vs. TEMP. / Capacidad Vs. Temp.



LIFE EXPECTANCY Vs. TEMP. / Vida Vs. Temp.

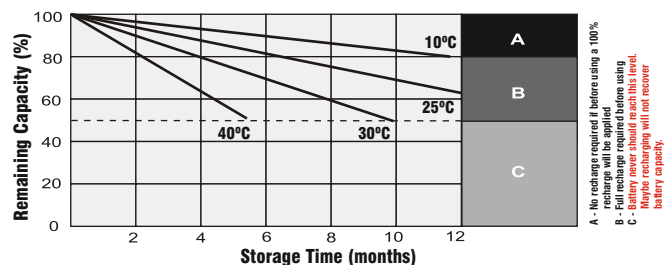


DISCHARGING CYCLES / Vida Vs. Descargas



Testing Conditions:
Discharging Current: 0.17 CA / FV 1.7 V/cell
Charging Current: 0.25 C max., 2.45 V/cell

STORAGE TIME / Tiempo de Almacenaje



A - No recharge required before using at 100%
B - Full recharge required before using
C - Battery never should reach this level. Maybe recharging will not recover battery capacity.