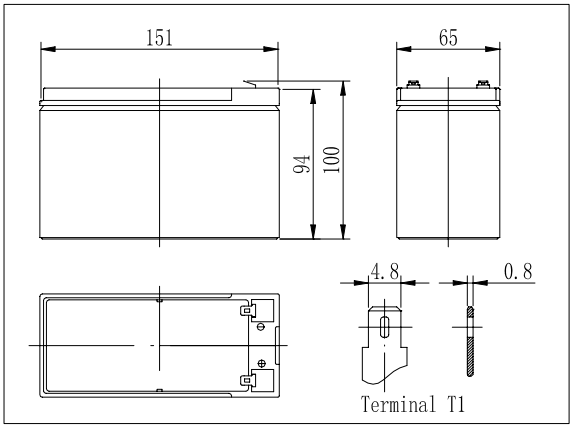
CTM *We power the future*

CX12-7 (12V7Ah)

Lead-acid battery VRLA

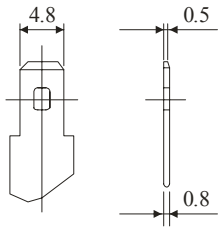
TECHNICAL DATA

Nominal voltage U_n		12 V
Capacity C_{20} (1,75V/cell, 20˚C)		7 Ah
Technology		AGM
Designed service life		5-6 years
Classification according to Eurobat		Standard Commercial
Dimensions	Lenght	151 mm
	Width	65 mm
	Height	94 mm
	Total height	100 mm
Weight		2,30 kg
Terminals	Type	T1 / T2
	Material	Copper
Max. tightening torque		-
Internal resistance at full charge (20˚C)		25,0 mΩ
Capacity C_T at (1,75V/cell, 20°C)	20 h	7,00 Ah
	10 h	6,46 Ah
	5 h	5,80 Ah
	3 h	5,10 Ah
	1 h	4,38 Ah
Capacity in dependence on operating temperature	40˚C	102 %
	20˚C	100 %
	0˚C	85 %
	-15˚C	65 %
Self-discharge during storage at 20˚C	C_N after 1 month	98 %
	C_N after 3 months	94 %
	C_N after 6 months	88 %
Recommended operating temperature		15˚C ÷ 25˚C
Acceptable range of operating temperatures	Charging	-10˚C ÷ 40˚C
	Discharging	-20˚C ÷ 50˚C
Charge voltage at 15˚C ÷ 25˚C	Buffer operation	2,25 ÷ 2,30 V/cell
	Cyclic operation	2,42 ÷ 2,48 V/cell
Temperature compensation	Buffer operation	± 3mV/˚C/cell
	Cyclic operation	± 4mV/˚C/cell
Max.charge current		2,1 A
Max.discharge current		105 A (5 s.)

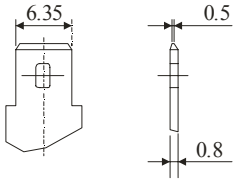


TYPES OF TERMINALS

T 1



T 2



DISCHARGE CHARACTERISTICS

Cut-off voltage	Discharge time (minutes), Watts/cell at 20[°C]											
	5min	10min	15min	20min	25min	30min	35min	40min	45min	1h	2h	3h
1,60 [V/cell]	46,93	33,57	26,06	21,69	18,53	15,44	13,66	12,44	11,45	8,98	4,85	3,44
1,70 [V/cell]	44,59	31,84	25,02	20,82	17,79	14,84	13,13	11,96	11,01	8,63	4,79	3,39
1,80 [V/cell]	41,90	29,95	23,75	19,76	16,89	14,08	12,46	11,35	10,45	8,20	4,69	3,33
Cut-off voltage	Discharge time (minutes), Amps at 20[°C]											
	5min	10min	15min	20min	25min	30min	35min	40min	45min	1h	2h	3h
1,60 [V/cell]	25,20	17,81	13,71	11,27	9,52	8,08	7,07	6,37	5,80	4,66	2,49	1,74
1,70 [V/cell]	23,96	16,96	13,15	10,81	9,13	7,75	6,78	6,11	5,57	4,46	2,45	1,71
1,80 [V/cell]	22,52	15,92	12,50	10,28	8,68	7,37	6,45	5,82	5,29	4,25	2,40	1,68

OPERATION FEATURES

- Maintenance-free in respect of electrolyte checks and refilling
- Technology AGM (elektrolyte absorbed into glass fibre separators)
- Efficient gas recombination mechanism
- Safe operation ensured by the self-sealing system of safety valves
- Energy-efficient plates
- Sealed to exclude any electrolyte leakage
- Casing made of shock resistant slow burning ABS resign
- Low self-discharge level – about 2% per month
- High quality and reliability
- Compliant with BS6290-4, DIN(IEEE1188), IEC60896-2, CE
- Manufacture compliant with ISO 9001
- FAA and IATA approved as safe in transport

Date: 2008/05/05, ver. 01

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