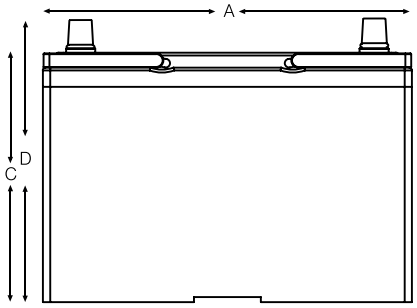
NORDMAX™

Light Traction Bloc Batteries

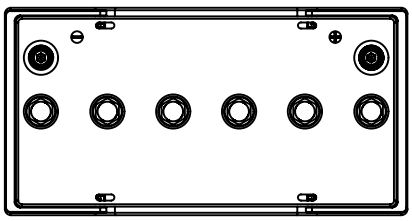
NM12076T1TG

(12V 85Ah @ 5hr)

Nordmax valve regulated lead-acid batteries for the light traction market. With an innovative Gel-technology and maintenance free design, Nordmax Gel Bloc batteries are compatible with all universal cyclic applications.



Left - Negative Right - Positive



Electrical Specifications

Voltage	12V
80% DOD Voltage Cutoff	11.2V
Self Discharge	Less than 3% per month (20°C/68°F)
Charge Temperature	Min: -10°C (14°F) / Max: 50°C (122°F)
Discharge Temperature**	Min: -40°C (-40°F) / Max: 50°C (122°F)
Storage	Min: -20°C (-4°F) / Max: 60°C (140°F)

Amp Hours (AH)					
20 hr	**10 hr**	**5 hr**	**3 hr**	**2 hr**	**1 hr**
94	88	85	79	74	64

**CAUTION: Depths of discharge, operating voltages and currents, when designing systems for use at maximum temperatures, will vary.

Mechanical Specifications

Industry Reference	31	
Length (A)	13 in	329 mm
Width (B)	6.7 in	170mm
Height (C)	8,1 in	205mm
Height (D)	8,1 in	229mm
Weight	71 lbs	32 kgs
Terminal (Opt'l)*	A-Pole	
Cell(s)	6	
Electrolyte	Gel	
Terminal Torque Nm	8	

NOTE: There is a tolerance of +/-2%.
* Including A-Terminal

Features

Maintenance-free bloc batteries in Gel technology (no topping up during lifetime)

Good high current performance for extreme operating conditions

High-class patented safety valve

700 cycles (DIN EN 60254-1) (IEC 254-1)

Valve-regulated lead-acid battery

Recyclable

Long cycle life

Low self discharge rate allows for up to 2 years shelf life

Classified as a non-spillable battery is not restricted for transportation by:

- Air (IATA/ICAO provision 67)
- Ground (STB, DOT-CFR-HMR49)
- Water (IMDG amendment 27)

Applications

Electric vehicles

Wheelchairs

Cleaning machines

Electric working platforms

Universal for multiple cyclic applications

Compliant with
EN60254-1&2 & IEC254-1/2
ISO 7176-25 SAE J 1495

Charging profile

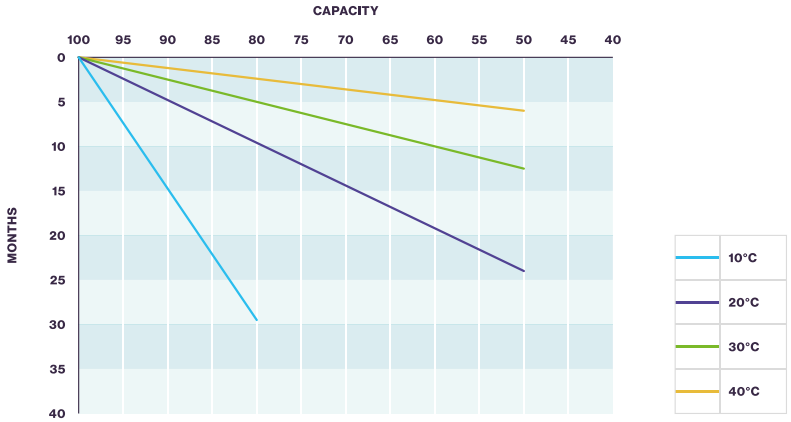
IU Charging

I = min. 12% C_5 max. 18% C_5
U = 2.4 V per cell

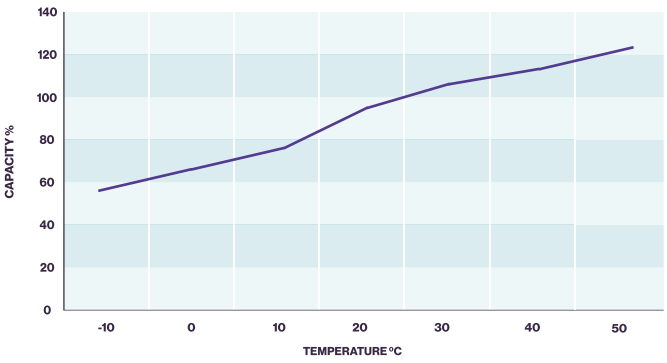
IUI Charging

I1 = min. 12% C_5 max. 18% C_5
U = 2.35 V per cell
I2 = 1.5 % C_5 for max. 4 hours

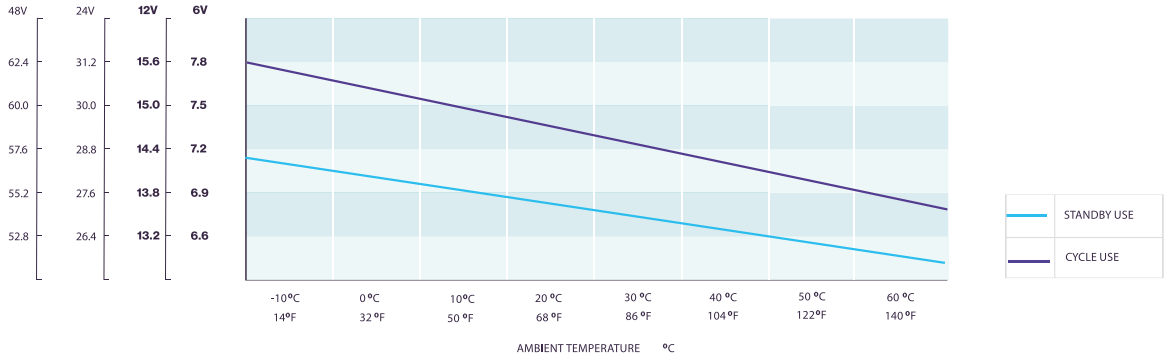
Self discharge at different temperatures



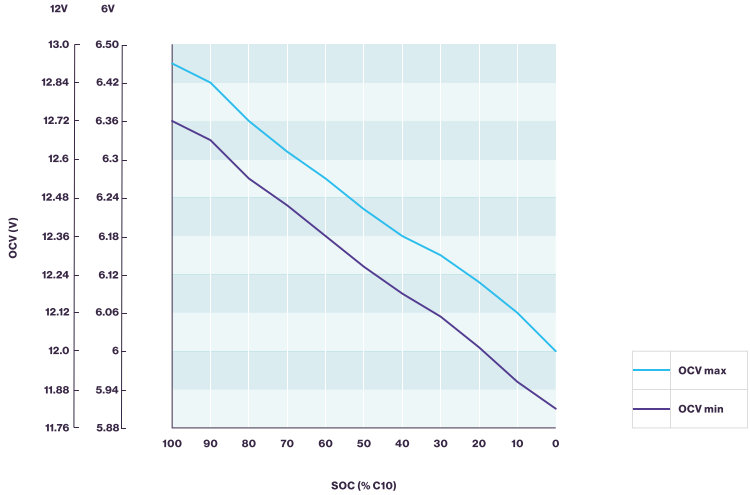
Capacity vs. temperature



Relation between charging, voltage and temperature



Storage: Determine the state of charge



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www.nordmaxbattery.com