

LP 28MTi

Rechargeable LTO PHEV-2 cell

2.25 V medium power lithium titanate cell.

LP 28MTi cell features Saft's titanate technology which is ideally suited for applications requiring high power throughput, very fast charge and long cycle life.

Saft always supplies cells as part of modules or systems, incorporating electronic safety devices, thermal and safety management adapted to each application.



Cell key features

- Fast charge capability
- Power cell with 10C capabilities
- High current in charge and discharge
- Safe LTO technology
- Cold temperature performances

Benefits

- Maintenance free cells
- Allows flexible and compact battery design
- Exceptionally long cycle and calendar life
- High efficiency and throughput

Typical applications

- Electric and hybrid off-road vehicles
- Railway rolling stock
- High Regen and fast charge

Nominal characteristics at + 25°C /+ 77°F

Capacity at C/5 (Ah)	28
Nominal Voltage (V)	2,25
Energy (Wh)	63
Volumetric energy (Wh/l)	158
Gravimetric energy (Wh/kg)	78

Mechanical characteristics

Width (mm)	148
Height (mm)	101,7
Depth (mm)	26,5
Weight (kg)	0,810

Cell typical operating conditions at + 25°C/+ 77°F

Typical cut off voltage*	1,6 V
Charging Method	Constant current Constant voltage
Charging voltage	2,7 V (± 0,05 V)
Maximum Continuous discharge current (A)	280 A
Maximum Continuous charge current (A)**	280 A
Maximum Pulse discharge current 30 sec (A)	450 A
Maximum Pulse charge current 30 sec (A)**	450 A
Cycling performances	20 000 cycles (4C/4C, 80% DOD) 1.6 mil cycles (6C/6C, 3% DOD)
Operating temperature	- 25°C to + 60°C
Storage and transportation temperature	- 30°C to + 70°C

* Can vary depending on temperature and discharge rates.

** High charging rates, extreme temperatures impact life. Please consult Saft for your application.

Saft's battery systems

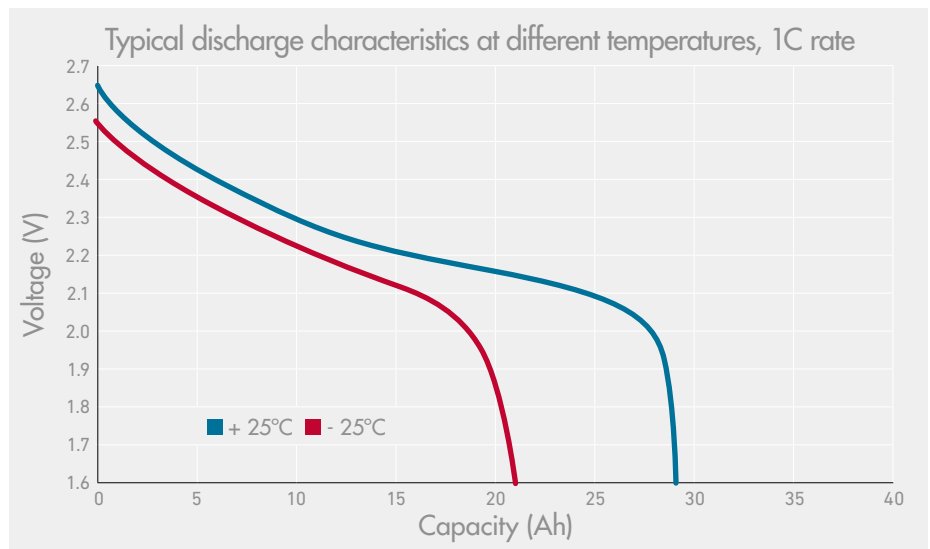
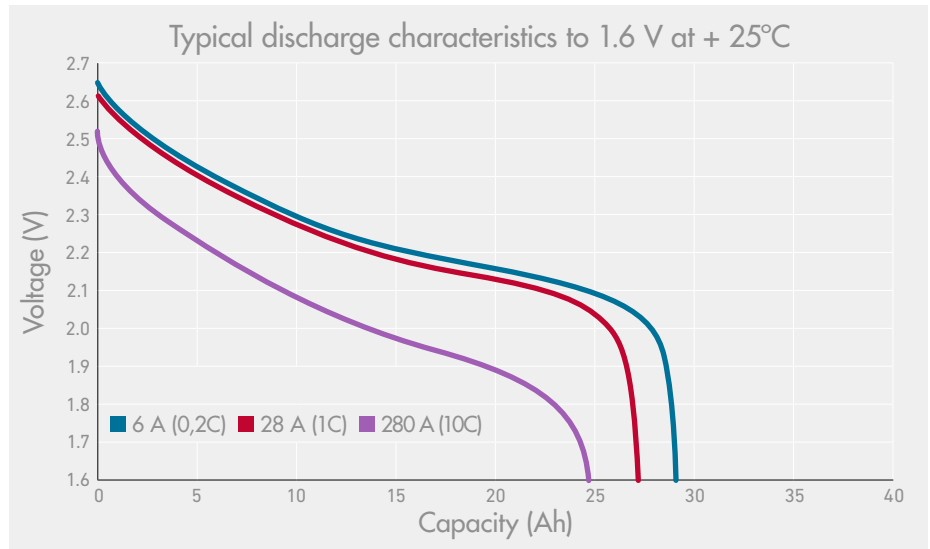
- Individual lithium-ion cells are mechanically and electrically integrated into battery systems for optimized operation
- Saft battery systems include electronic devices for performance, thermal and safety management adapted to each application

Battery systems features

- Saft provides complete battery system incorporating:
 - several levels of redundant safety features to prevent abuse conditions such as over-charge, over-discharge, short-circuits and over-temperature.
 - electronics for performance efficiency:
 - charge/floating/discharge management
 - cell balancing
 - temperature monitoring
- The battery system comes with a Saft Battery Management System (SOH, SOC monitoring, protection devices, current sensor) application

Designed to meet all major quality, safety and environmental standards

- Safety: UL 1642, IEC 62619
- Transport: UN 3480
- Performances: IEC 62620
- Quality: ISO 9001, ISO 14001, Saft world class program
- Recyclable



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