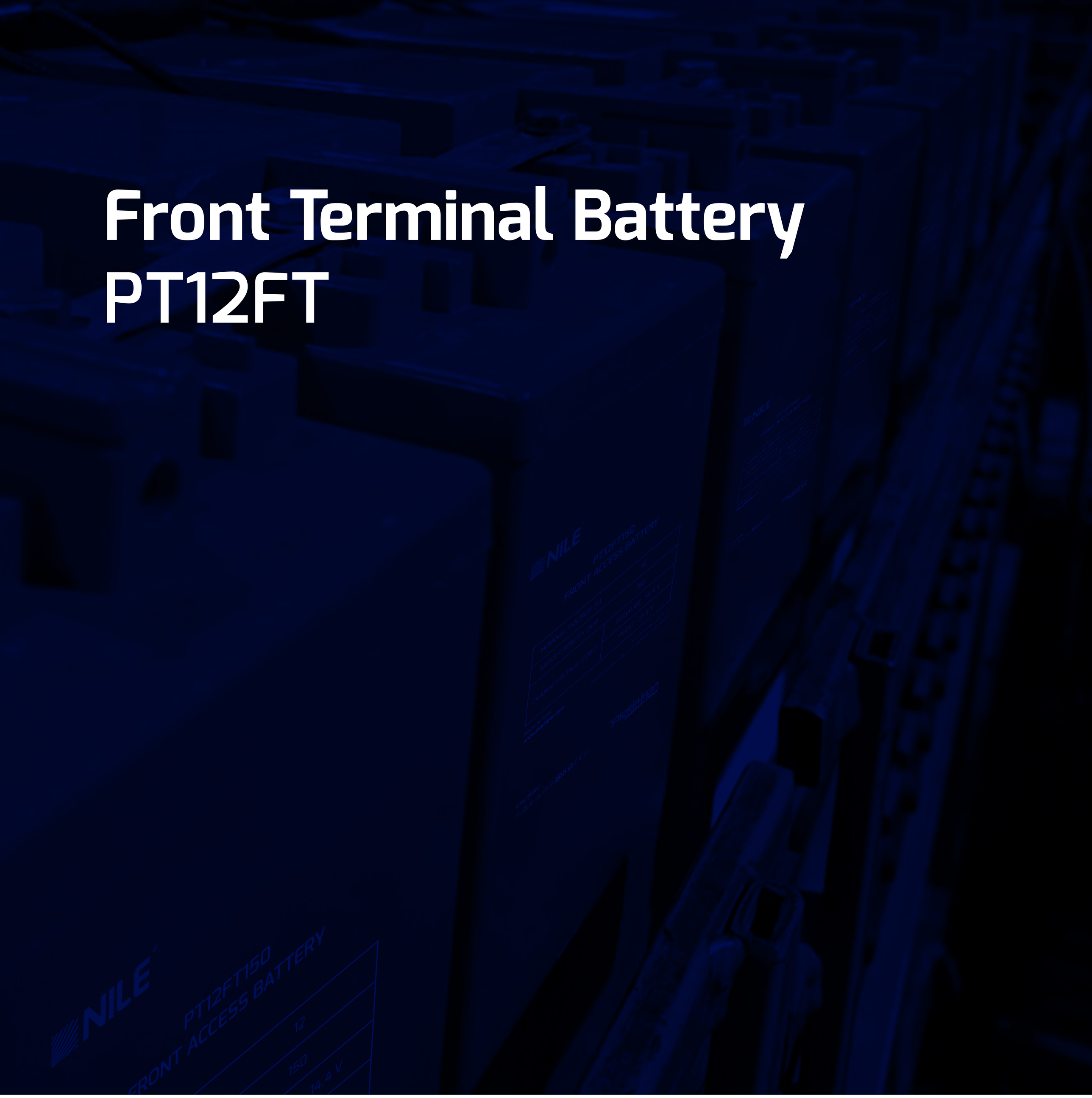
Front Terminal Battery
PT12FT



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Construction

Compliant Standards

- IEC 60896-21&22
- INSO 4868-21&22
- BS 6290-4
- ISO 9001

Product characteristics

- Nominal voltage: 12V
- Max charging current allowed: 0.2C10 (A)
- Design life: 8-12 years (25°C)
- Float voltage: 13.50 V/Block (25°C)
- Equalize voltage: 14.40 V/Block (25°C)
- Self-discharge: ≤ 2% per month (25°C)
- Shelf life: 3 months at 25°C
- Terminal torque: 10 ± 1.0 N.m
- Working temperature: -15°C to +45°C
- Container material: ABS (UL94-V0 optional)

Main Applications

- Telecom
- UPS System
- Data Center
- Power System

Indication of type

PT 12 FT ---

- --- : Nominal Capacity (Ah)
- FT : Front Terminal Battery
- 12 : Nominal Voltage (V)
- PT : Platin Iran

Features

- Valve regulated system; no water addition needed.
- Real front-access terminal connections for fast and easy installation and maintenance.
- Easy-on easy-off multi-purpose design terminal protector.
- Suitable for 19",23" racking or cabinet
- Proven excellent special lead-calcium-tin formula alloy for grids and plates
- Microporous absorbent glass mat in low resistance as separator
- Flame retardant ABS material container and cover compliant with UL94-V0 (optional)
- Self-regulating pressure relief valve

Technical Information

Type	Nominal Voltage (V)	Nominal Capacity* (Ah) at 25°C	Float Voltage (25°C)	Equalize Voltage (25°C)	Internal Resistance ±0.05 (mΩ)	Dimension (mm)				Weight ±2% (kg)
						Length	Width	Height	Total Height	
PT12FT100	12	100	13.50 V/Block	14.40 V/Block	6.31	390	110	270	270	29
PT12FT150	12	150			4.30	551	110	290	290	44.5
PT12FT155	12	155			4.27	551	110	290	290	45
PT12FT180	12	180			3.88	546	120	325	325	54
PT12FT200	12	200			3.70	546	120	325	325	59

*10-hour discharge nominal capacity (C10)

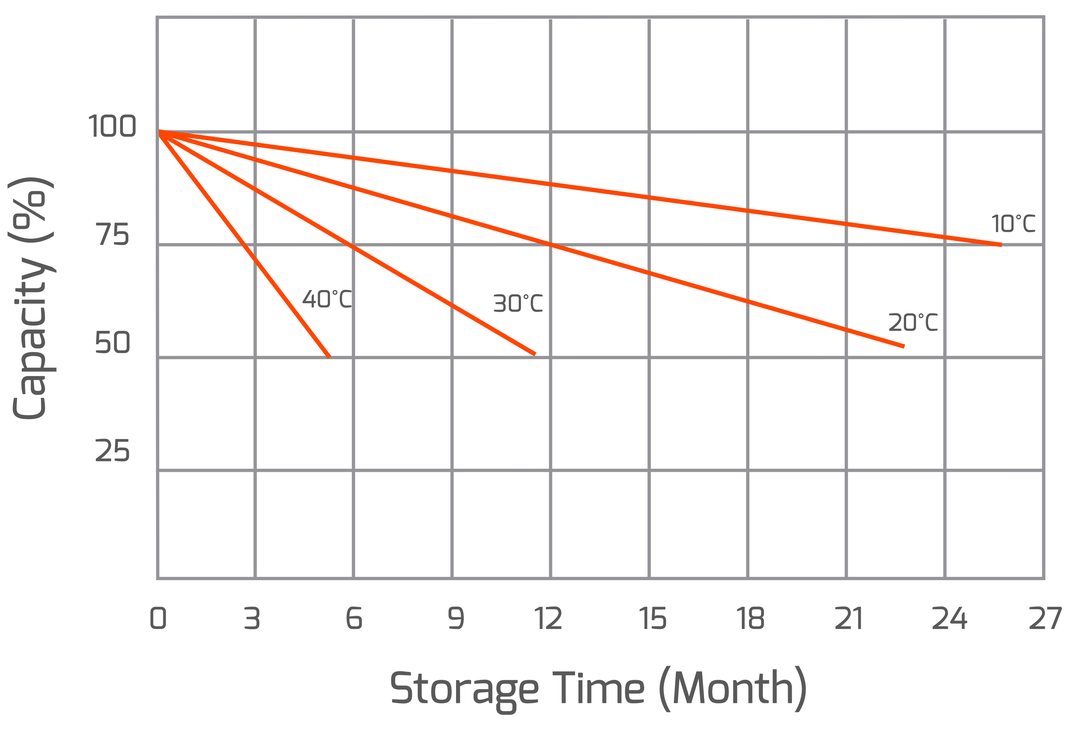
Discharge Current Rates - Amperes (25°C)

Type	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour
PT12FT100	62	28	18	14	10
PT12FT150	93	42	27	21	15
PT12FT155	96.1	43.4	27.9	21.7	15.5
PT12FT180	111.6	50.4	32.4	25.2	18
PT12FT200	124	56	36	28	20
End Voltage (V/Cell)	1.60	1.65	1.70	1.75	1.80

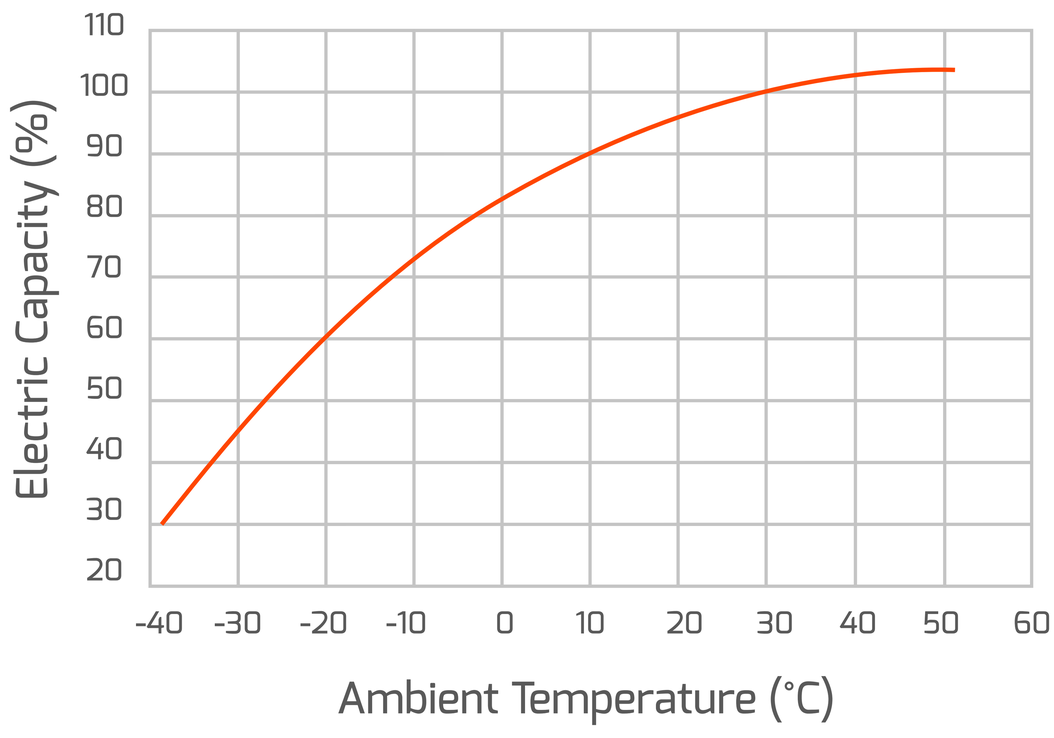
Charging Voltage at Different Temperatures

Temperature (°C)	Float Voltage (V/Block)	Equalize Voltage (V/Block)
1 - 5	13.86	15.00
6 - 10	13.77	14.85
11 - 15	13.68	14.70
16 - 20	13.59	14.55
21 - 25	13.50	14.40
26 - 30	13.41	14.25
31 - 35	13.32	14.10
36 - 40	13.23	13.95

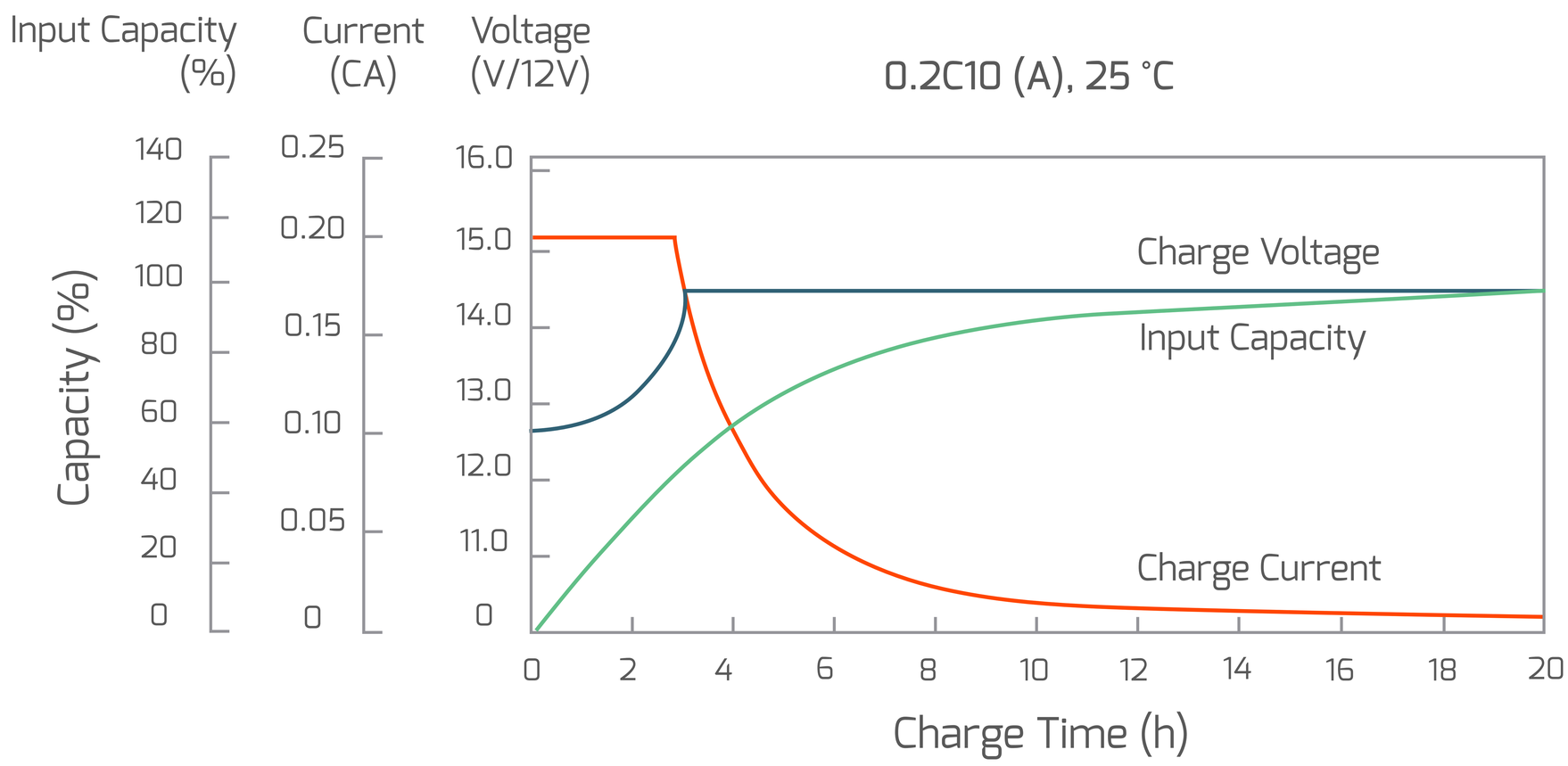
Capacity Retention Characteristic



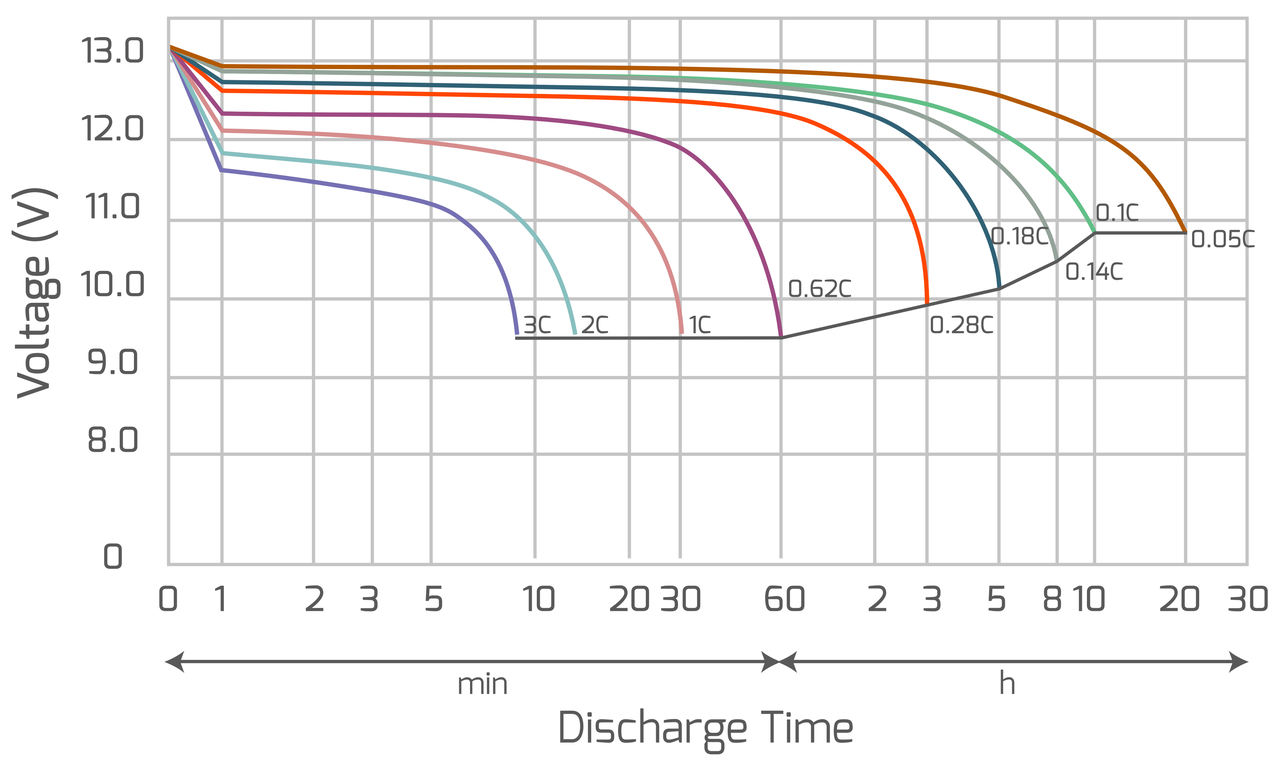
Electric capacity vs. Temperature



Charge Capacity vs. Charge Time



Discharge Voltage vs. Discharge Time



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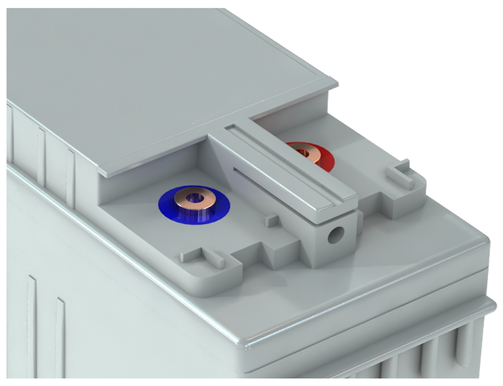

The terminal protector for PT12FT batteries is designed with special probe hole a lowing safe and easier voltage testing and suitable for all connections means.
The specially centralized venting system ensures the small gas be vented out of the closed cabinet.

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