UPS Battery
PT12UP

PlatinIran®
Sustainable Energy

NILE®

Construction

Compliant Standards

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

Main Applications

- UPS System
- Data Center
- Emergency Power System
- Medical Equipment
- Alarm System

Indication of type

PT 12 UP ---

- --- : Nominal Capacity (Ah)
- UP : UPS Battery
- 12 : Nominal Voltage (V)
- PT : Platin Iran

Product characteristics

- Nominal voltage: 12V
- Max charging current allowed: 0.2C10 (A)
- Design life: 5~7 Years at 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)
- Working temperature: -15°C to +45°C
- Recombination efficiency: > 98%
- Container material: ABS (UL94-V0 optional)

Features

- Grid alloy is corrosion proof, no pollution and less water loss.
- Impact proof and vibration proof strengthened ABS material
- Patent terminal sealing technology
- Higher assembly pressure, preventing active material shedding off the plates
- High sensible value, ensuring the reliability and safety during the operation
- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge
- Easy installation and handling
- Flexible design for multiple installation

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	
PT12UP7	12	7	13.50 V/Block	14.40 V/Block	30	150	65	94	97	2
PT12UP9	12	9			21	150	65	94	97	2.5
PT12UP12	12	12			19	150	98	94	97	4.2
PT12UP18	12	18			14	181	77	164	168	5.4
PT12UP28	12	28			12	175	165	125	125	8.4
PT12UP42	12	42			8.5	200	165	159	170	13.7
PT12UP65	12	65			7	350	165	175	175	20.9
PT12UP100	12	100			5	325	170	215	219	30
PT12UP150	12	150			4.5	485	170	231	242	46
PT12UP200	12	200			3	522	234	218	223	60

*10-hour discharge nominal capacity (C10)

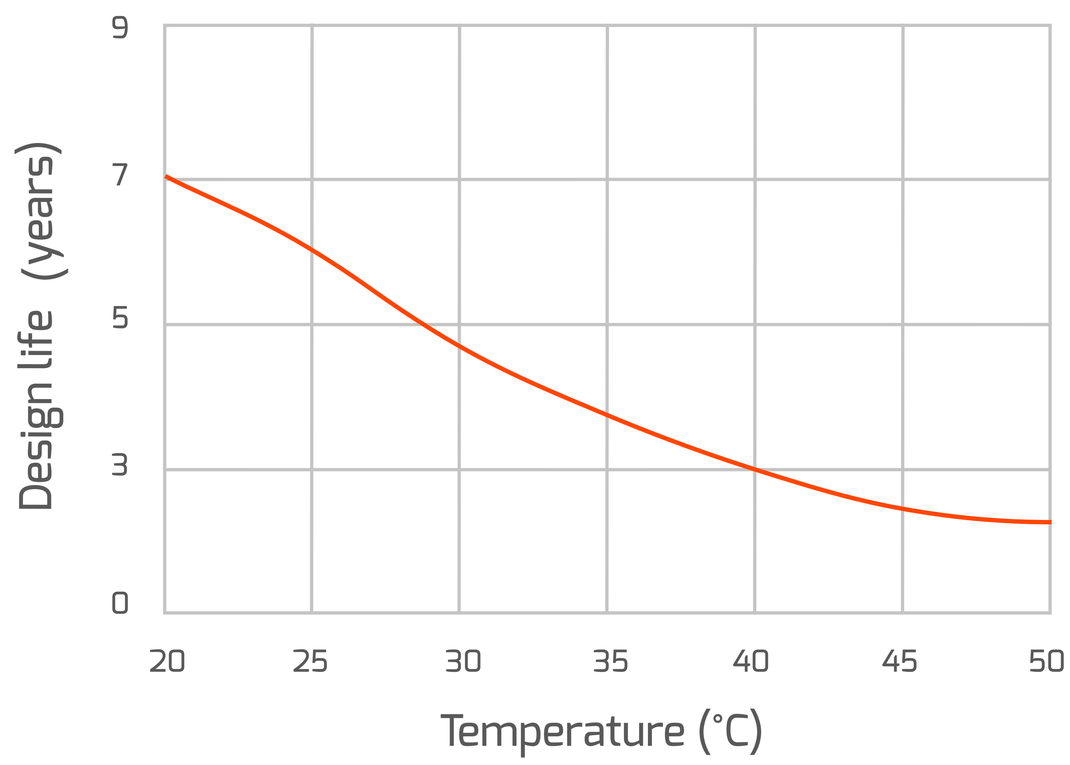
Discharge Current Rates - Amperes (25°C)

Type	1 Hour	3 Hour	5 Hour	8 Hour	10 Hour
PT12UP7	4.34	1.89	1.19	0.98	0.7
PT12UP9	5.58	2.43	1.53	1.26	0.9
PT12UP12	7.44	3.24	2.04	1.68	1.2
PT12UP18	11.16	4.86	3.06	2.52	1.8
PT12UP28	17.36	7.56	4.76	3.92	2.8
PT12UP42	26.04	11.34	7.14	5.88	4.2
PT12UP65	40.3	17.55	11.05	9.1	6.5
PT12UP100	62	27	17	14	10
PT12UP150	93	40.5	25.5	21	15
PT12UP200	124	54	34	28	20
End Voltage (V/Cell)	1.60	1.65	1.70	1.75	1.80

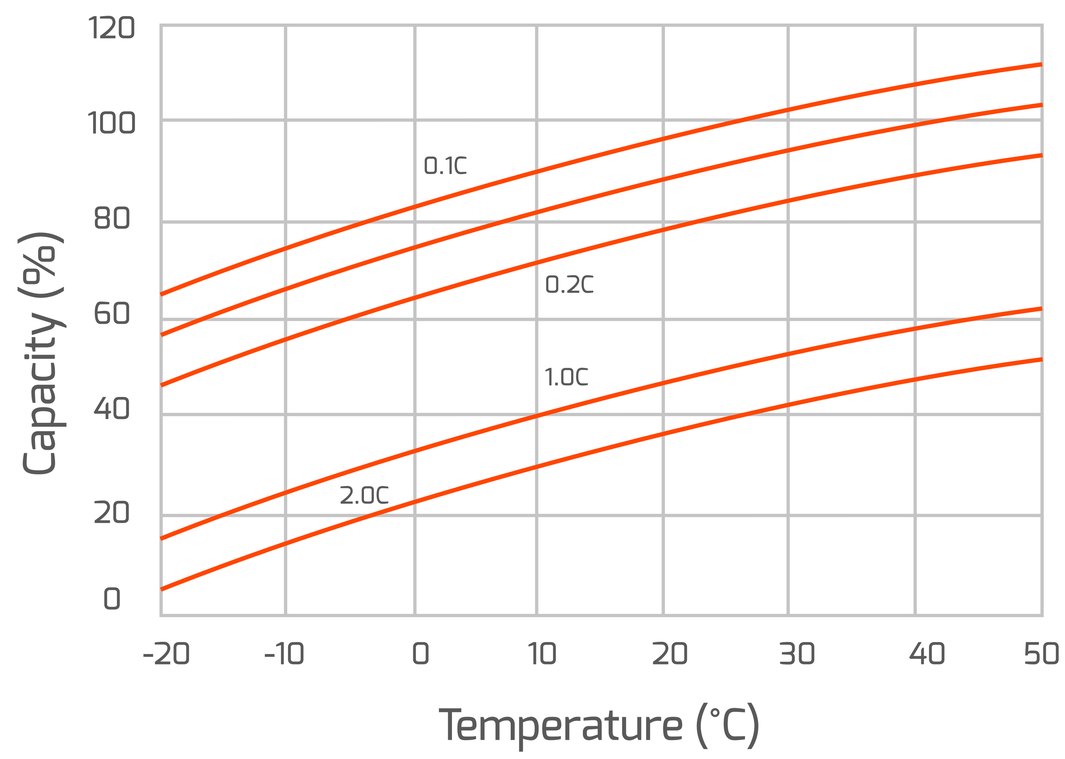
Charging Voltage at Different Temperatures

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

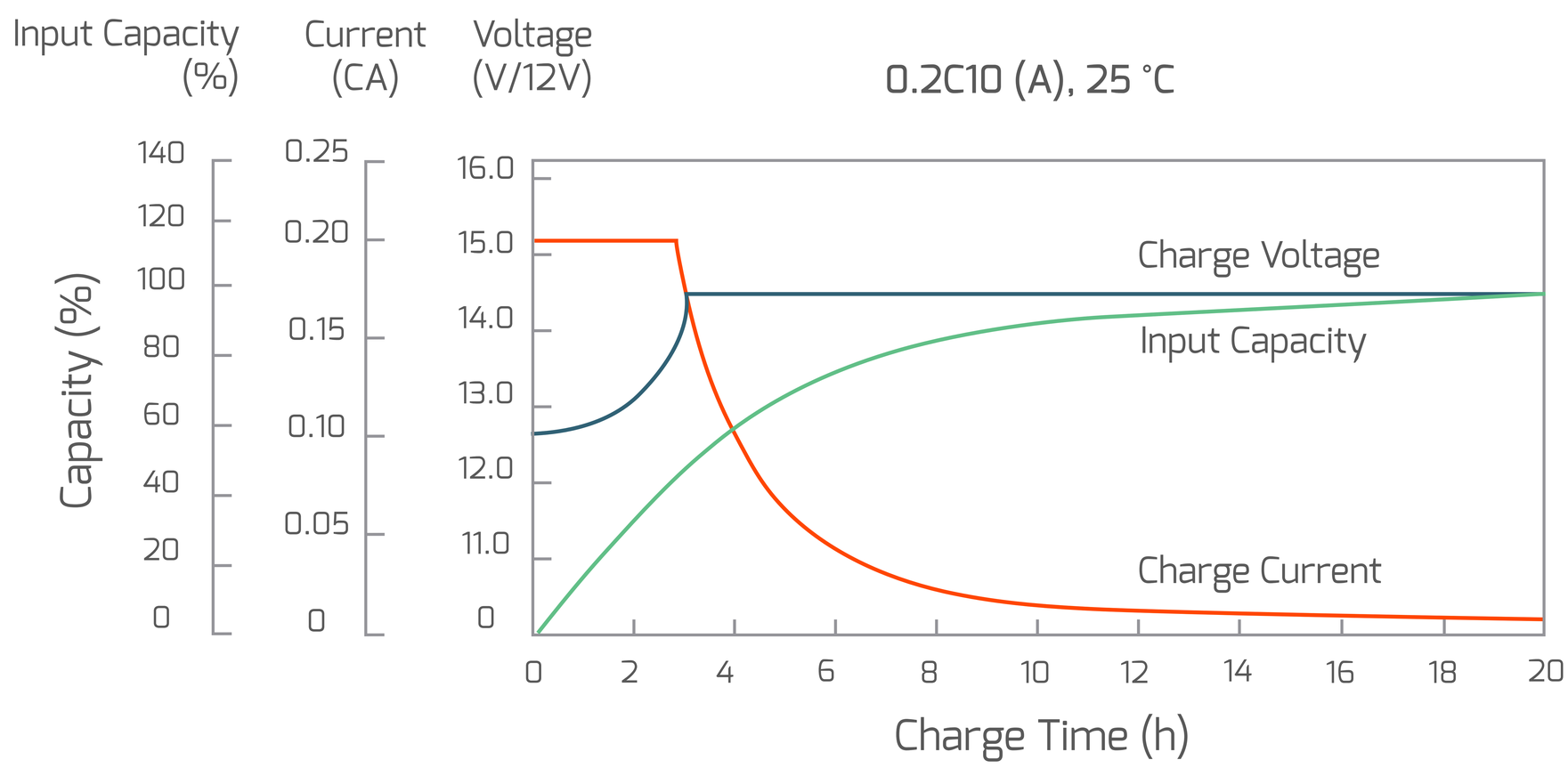
Design Life vs. Temperature



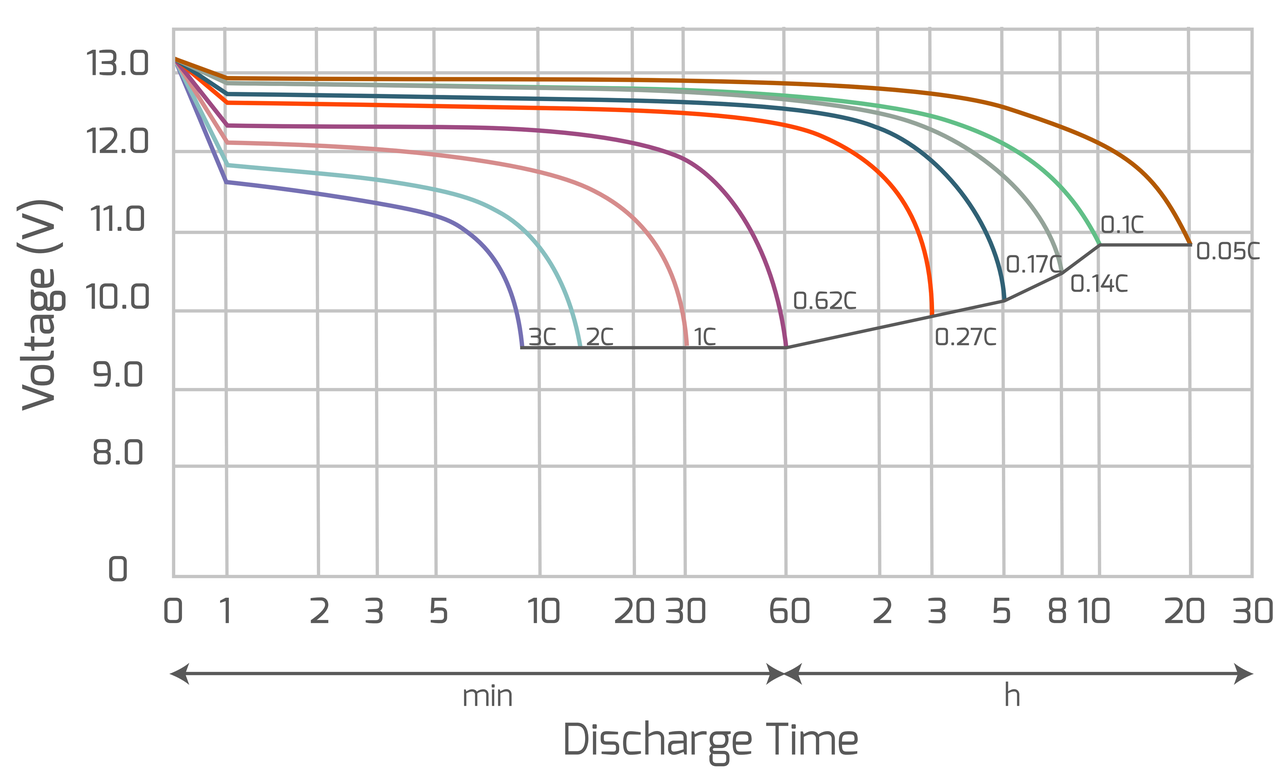
Discharge Capacity vs. Temperature



Charge Capacity vs. Charge Time



Discharge Voltage vs. Discharge Time



PlatinIran®
Sustainable Energy

Head Office: NO. 12, 17th Street, Mirzaye Shirazi Street, Mottahari Street, Tehran Iran
Tel: 021-88844751-3 - Zip Code: 1586644316 - Fax: 021-88833385 - Email: Info@platiniran.com