PALSAI
LEAD ACID CELLS

PALSAI BATTERY

MFRS. : 2V, 6V, from 40 Ah to 1000 Ah Cells

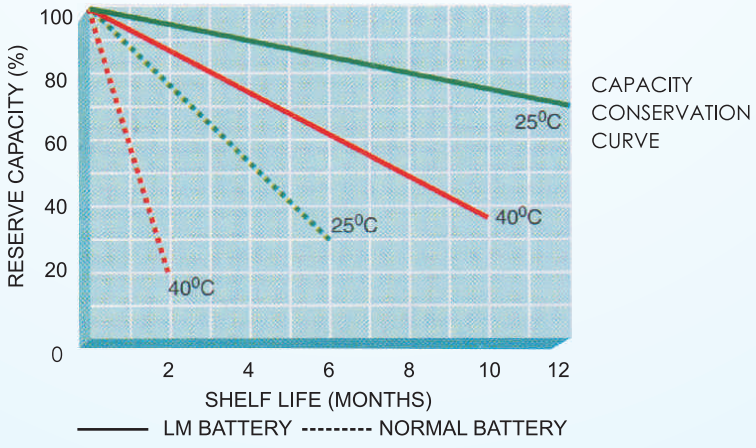
Features

'PALSAI' Stationary Batteries/Cells are available in a wide range of capacities in 6/12 V multicell monobloc and 2 V single cell constructions to meet various back-up power requirements in different fields of activities for emergency power supply, as -

- Telecommunications.
- Switch tripping units.
- It Stand by power, safety and emergency lighting for
- a) Power stations b) Process industries c) Hospitals d) Domestic applications e) Fire & burglar alarm systems, etc.
- Stand by power applications of Railway Operations such as a) Communication systems, b) Track signalling.
- Uninterrupted power supply UPS for
  a) Computers b) Hospitals c) Process Industries.
  Solar panels.

Features

- Long service life
- Negligible grid corrosion Hi
- Easy maintenance and compact design
- Deep discharge capability.
- Less frequent topping up
- Excellent charge acceptance ability
- Minimal self discharge losses
- Reliable power supply



MULTICELL MONOBLOC **TECHNICAL SPECIFICATIONS (Low Maintenance Stationary Batteries)**

2 VOLT CELLS

Sr.No.	Battery Type	Capacity of 10 hr. rate		Overall Dimension + 5 mm			Weight approximately in KG		Qty.of Electrolyte in liters (approx.)	Initial Charging Current a amps.	ISI Type
		Voltage in V	Rating in Ah	Length	Width	Height Max	Dry	With electrolyte			
1.	PALT-20 H	2	20	98	160	315	3.9	6.0	2.3	1.0	T20H
2.	PALT-40 H	2	40	98	166	315	4.3	6.3	1.7	2.0	T40H
3.	PALT-60 H	2	60	98	166	315	5.7	7.8	2.2	3.0	T60H
4.	PALT-80 H	2	80	112	166	335	7.3	10.2	2.4	4.0	T80H
5.	PALT-100 H	2	100	170	142	430	9.0	13.3	3.6	5.0	T100H
6.	PALT-120 H	2	120	170	142	430	10.5	14.8	3.6	6.0	T120H
7.	PALT-200 H	2	200	211	185	530	17.0	22.5	4.6	10.0	T200H
8.	PALT-250 H	2	250	211	185	530	22.2	38.4	4.5	12.5	T250H
9.	PALT-300 H	2	300	211	185	530	26.0	38.5	8.6	15.0	T300H
10.	PALT-400 H	2	400	260	210	630	29.7	42.9	13.0	20.0	T400H
11.	PALT-500 H	2	500	260	210	630	34.5	48.8	11.5	25.0	T500H
12.	PALT-600 H	2	600	260	210	630	48.0	66.0	16.0	30.0	T600H

Sr.No.	Battery Type	Capacity of 10 hr. rate		Overall Dimension + 5 mm			Weight approximately in KG		Qty.of Electrolyte in liters (approx.)	Initial Charging Current a amps.	ISI Type
		Voltage in V	Rating in Ah	Length	Width	Height Max	Dry	With electrolyte			

6 VOLTS MULTICELL MONOBLOC BATTERIES

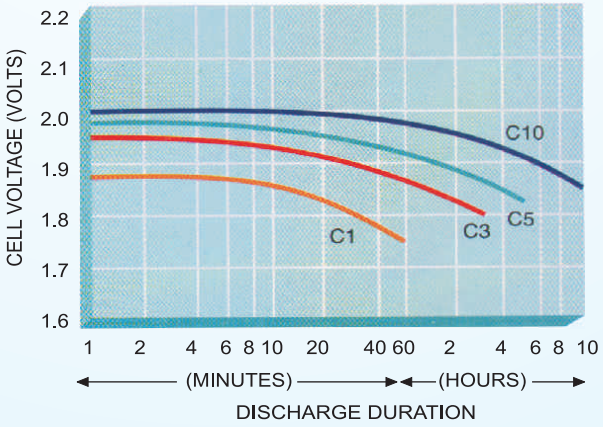
1.	3 PT-40 H	6	40	319	176	298	13.1	18.3	4.3	2.0	6T40H
2.	3 PT-60 H	6	60	349	176	298	15.6	22.4	5.7	3.0	6T60H
3.	3 PT-80 H	6	80	349	176	298	18.5	24.5	5.2	4.0	6T80H
4.	3 PT-100 H	6	100	438	183	375	30.0	42.6	10.5	5.0	6T100H
5.	3 PT-120 H	6	120	438	183	375	32.0	43.7	10.8	6.0	6T120H
6.	3 PT-160 H	6	160	438	183	375	38.4	51.0	11.0	8.0	6T160H
7.	3 PT-200 H	6	200	438	183	375	43.4	55.3	11.5	10.0	6T200H
8.	3 PT-240 H	6	240	438	183	375	51.5	64.6	12.9	12.0	6T240H

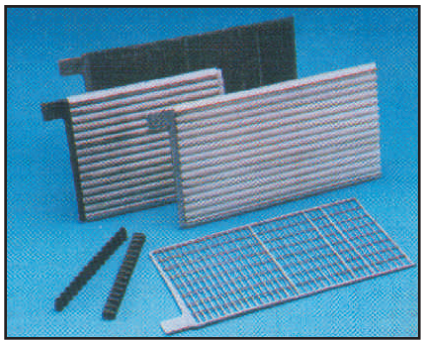
12 MULTICELL MONOBLOC BATTERIES

9.	6 PT-20H	12	20	315	173	240	14.2	20.5	5.2	1.0	12T20H
10.	6 PT-40 H	12	40	362	173	240	18.5	24.7	5.2	2.0	12T40H
11.	6 PT-60 H	12	60	430	173	240	28.0	34.4	5.7	3.0	12T60H
12.	6 PT-80 H	12	80	511	212	287	37.5	49.2	10.1	4.0	12T80H
13.	6 PT-100H	12	100	513	289	300	44.0	55.5	11.5	5.0	12T100H
14.	6 PT-120H	12	120	513	289	300	48.5	61.5	12.2	6.0	12T120H
15.	6 PT-30H	12	130	513	289	300	52.5	65.5	12.2	6.0	12T130H

The particulars are subject to change for improvement of performance. * All dimension are in mm and with respect to Hard Rubber Containers.

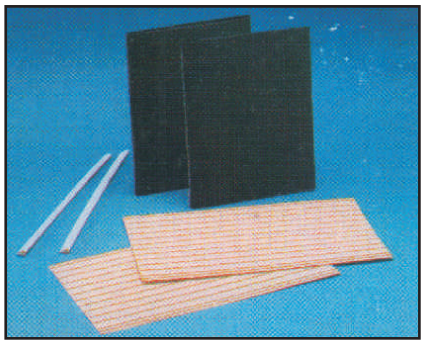
DISCHARGE CHARATCTERSTIC CURVES OF TUBULAR CELLS (at 27° c)





Tubular positive plates :
The active material in the positive plates is encased in multi-tubular gauntlets woven from high tensile acid resistant polyester yarn. The fine weave of the fabric retains me active material in place while allowing free access to the electrolyte. These gauntlets are unaffected by anodic corrosion and withstand the stresses due to expansion and contraction during cycling. Negative plates are thicker and specially designed for superior performance.

Electrolyte level indicators and microporous vent plugs. :
Easy to read electrolyte level indicators allow the level of electrolyte in the battery/cell to be read at a glance and vent plugs having microporous filters return the acid spray to the battery/cell, while allowing the Oxygen and Hydrogen generated during the final stages of boost charging, to exit to the atmosphere.



Microporous PVC or PE separators and side insulating chanels :
These separators have very low electrical resistance, which improves battery performance. Their high porosity ensures the easy diffusion of electrolyte assuring excellent performance even at high rates of discharge and their resistance to oxidation ensures a long life in service. Side insulating chanels prevent formation of short circuits along the vertical edges of the plates.

PALSAI Stationary Multicell Batteries And Stationary Single Cells

- 'PALSAI' Stationary Batteries /Cells and monobloc batteries are available for various stand-by power applications with Low Maintenance characteristics and are manufactured to meet all IS specifications of IS 1651-1991 and IS 13369-1992 respectively.
- Low Antimony Lead Selenium type alloy is used for manufacture of grids resulting in minimal maintenance and operational problems and longer life.
- The multi tubular positive plates, the specially designed negative plates and the microporous PVC separators with low electrical resistance are assembled in sturdy moulded Hard Rubber containers or in attractive Polypropylene containers.
- All raw materials and other in-puts undergo strict quality control tests at various stages of manufacture resulting in optimum quality and reliability of the end product.

NOTES:

- Recommended floating voltage 2.16 and 2.20 volts /cell
- Recommended float trickle charge voltage 2.18 volts/cell ± 1 %
- Equalising charge voltage 2.34 - 2.40 volts/cell
- For dry uncharged batteries/cells;

a) Electrolyte specific gravity 1.200 ± 0.005 at 27° C for intial filling.
b) Initial charging current 0.05 x cl 0 Amps for 120 hrs.
c) Operating specific gravity of fully charged battery/celll .200 + 0.005 at 27°C.

For dry charged batteries/cells.

a) Electrolyte specific gravity 1.240 ± 0.005 at 27° C for intial filling.
b) Initial charging current 0.1 x CIO Amps for 8 to 15 Hrs.
c) Operating specific gravity of fully charged battery/cell 1.245 ±0.005 at 27° C.

Authorised Dealer :

PALSAI BATTERY

MFRS. : 2V, 6V, from 40 Ah to 1000 Ah Cells

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