



Advantage PLANTÉ



**Reliability with
Transparency**

**EXIDE
INDUSTRIAL**

PLANTÉ BATTERIES POWERING POWER PLANTS

The Exide Planté battery for power plants is tribute to Gaston Planté who developed the first storage battery in 1859. It salutes an invention whose basic design has remained the same through nearly a century and a half. Planté batteries of today continue to rely on the interaction of lead and acid as the most cost efficient method of storing power. It continues to be the most reliable battery the world over. Others are prone to sudden failure, catastrophic for a power plant.



Gaston Planté

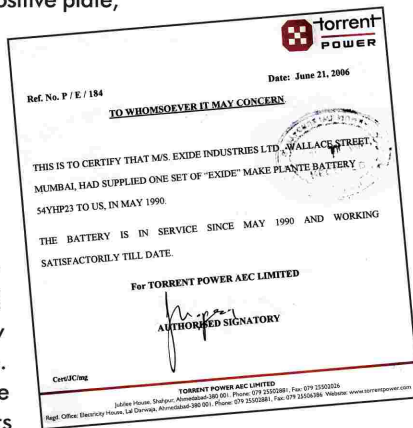
Technology for reliability

Planté batteries manufactured for Power Plants, Sub-stations, Telecom and other critical applications of today are precision engineered with an expected life of 15 to 20 years. In the Indian context, Exide Planté batteries have even lasted more than 25 years with proper maintenance at various sites.

There are of course many improvements. The lamellar construction results in an effective surface area that is 10-12 times the geometric area and leads to improved charge acceptance. The interleaved plates are insulated from each other by rigid PVC separators. A notable feature of the Planté cell is that there is no external paste or oxide on the positive plates. Instead, a part of the grid metal is electrochemically converted into active material throughout the battery's life.

Purity for versatility

Exide Planté batteries are made with 99.99% pure lead in the positive plate and low antimony lead alloy in the negative plate. The absence of leachable impurities in the positive plate, along with technological innovations mentioned above, not only ensures a long life but also ruggedness under extreme conditions. The Exide Planté has the versatility to handle wide temperatures ranging from - 10°C to + 50°C. Exide Planté also has excellent discharge capabilities and can operate within a narrow voltage of charge - discharge. Its superior high discharge performance coupled with its



unique feature of no degradation in capacity throughout service life ensure that a lower capacity (C10) Planté can meet a given duty cycle, compared to many other options of higher capacity.

Clarity for maintenance

Uniquely, Exide Planté batteries come in a transparent container making it possible to easily check the electrolyte level and the condition of plates and separators. The vent system also ensures that physical measures, such as for specific gravity, can be taken by simply unscrewing the ceramic plugs. If you keep an occasional eye on it, an Exide Planté requires little maintenance. Unless the room is particularly hot, topping up once in 2 years is sufficient. Even when ambient temperatures are consistency high, topping up more than once in a year is rarely required.

Application

Exide Planté is most suited for Power Planté application. It is corroborated by BS6290 : Part 2 : 1984. Except of appendix B of BS6290 : Part 2 : 1984 is as follows :

Applications – Electrical Applications - Electrical performance characteristics determine the applications to which a high performance Planté cell is most suited.

"The discharge charge characteristics do not vary throughout life and the voltage characteristics discharge, float or recharge are stable and reproducible. While there is no reliable test to confirm the service endurance of the product, experience has shown that under well maintained float conditions a product life of up to 25 years can be expected".

The high performance Planté cell is particularly recommended for power systems associated with telecommunications, switch operations, standby engine starting, uninterruptible power supplies and emergency lighting.

Sl.No	Battery Type	Rating	Location	Date of commission
01.	110 YHP -25	220V-325Ah	Unit-1	1990
02.	180 YKP -27	360V-325Ah	Unit-1 (UPS)	1990
03.	4 x 13 YHP -39	2x26V-4060Ah	Unit-1 (UPS)	1990
04.	2 x 13 YHP -17	2 x 26V-860Ah	Unit-1 (24V)	1990
05.	110 YHP -25	220V-325Ah	Unit-2 (4V)	1991
06.	180 YKP -27	360V-325Ah	Unit-2	1991
07.	4 x 13 YHP -39	2x26V-4060Ah	Unit-2 (UPS)	1991
08.	2 x 13 YHP -17	2 x 26V-860Ah	Unit-2 (24V)	1991
09.	2 x 110 YHP -13	2 x 220V-645Ah	GCR	1990
10.	110 YKP -9	220V-100Ah	CHP	1991
11.	110 YKP -9	220V-100Ah	CHP	2004



Head Office : Exide House, 59E, Chowringhee Road, Kolkata-700 020, Ph. : (033) 2283 2120/33/36/50/51/71/2238/39, Fax : (033) 2283 2632/37, **Corporate Marketing Office :** 6A Hatibagan Road, Entally, Kolkata - 700014, Ph. : (033) 2286 6158/6159, Fax : (033) 2286 6186, **Factory :** Shannagar : Ph. : (033) 2581 2146/47/48/49/7342/7343, Fax : (033) 2581 3930, **Haldia :** (03224) 252140/145/296/253, Fax : (03224) 252145, **R&D Centre :** Ph. : (033) 2500 5458/5225/5660, **Central Service :** Ph. : (033) 2580 0113, Fax : (033) 2581 3930, **Ahmedabad :** (079) 6510 8207/06/05, **Bangalore :** (080) 4081 0800, 4081 0813, 4081 0809, **Baroda :** (0265) 2354240, **Chandigarh :** (0172) 265 4387/4553/7409, **Chennai :** (044) 2250 0726/1226/1216, **Coimbatore :** (0422) 211737/1846, **Delhi :** (011) 2362 7095/96/97/98, **Guwahati :** (0361) 220 500/119/486, **Hyderabad :** (040) 6516 3958, **Indore :** (0731) 6542293, **Jamshedpur :** (0657) 229 3022/0785, **Kochi :** (0484) 4149351/352, **Kolkata :** (033) 2284 3137/3169, **Lucknow :** (0522) 404 1895/1896/1899, **Mumbai :** (022) 2646 5283/84/5041, **Nagpur :** (0712) 253 9972/9973, **Pune :** (020) 323 0404-45.

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