



ESPEX

PLANTÉ
STANDBY
BATTERIES

YAP 16AH to 64AH

YCP 75AH to 400AH

YHP 535AH to 2250AH

The Ultimate in Standby Power

Construction Features

The ESPEX range of Planté YAP, YCP and YHP cells are made with unique Planté positive plates using lamellar constructions from ultra-pure Lead.

This ensures:

- ◆ Least open-circuit energy loss
- ◆ No reduction of AH capacity throughout their long life and hence it is not necessary to oversize ESPEX Planté batteries to compensate for performance degradation as the battery ages.
- ◆ Float life expectancy up to 25 years.

ESPEX Planté cells come in transparent Styrene Acrylonitrile (SAN) containers giving excellent clarity, outstanding chemical resistance, rigidity and toughness with very high insulating qualities.

ESPEX Planté batteries are used extensively in Power Generation, Transmission and Distribution Stations, UPS Systems and for Switchgear Operations.

ESPEX Planté cells are the most reliable and their condition can easily be assessed by visual observation of the plates within.

ESPEX Planté cells have low internal resistance and need very low maintenance

Standards compliant

- ◆ BS 6290-Part 2
- ◆ IEC 60896-11

Manufacturing Plant certified

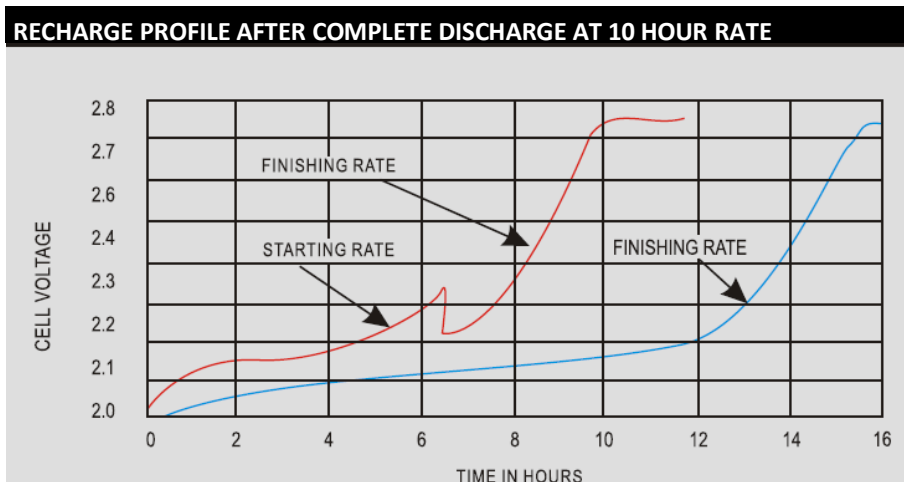
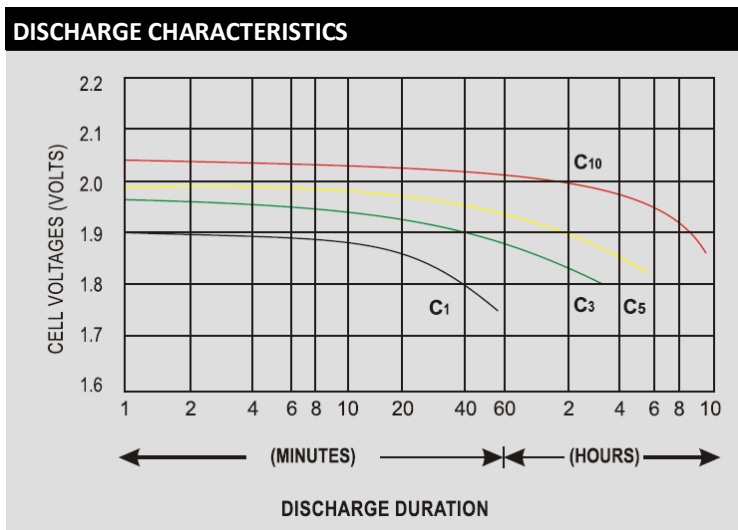
- ◆ ISO: 9001
- ◆ ISO 14001

Operation & Maintenance

- ◆ May be mounted on steel or wood racks
- ◆ Float voltage 2.25V / cell at 25°C
- ◆ Working temperature 0—55°C but recommended 10—35°C
- ◆ Batteries should be installed in conformance to EN 50272-2 as well as the respective country's standards

Life Expectancy

- ◆ Up to 25 years In Float operation at 20°C



General Technical Specifications

Type of Cell	Capacity in AH at				Cell Weight Filled	Acid only 1.215 S.G. at 20 deg C	Approx Qty. of Acid	External dims of cell container			Overall height of cells	Cell centres			
	20 deg C when discharged in							Kg.	Kg	Lts			Length	Width	Height
	10 Hours	5 Hours	3 Hours	1 Hours											
Final voltage	1.80	1.79	1.80	1.75											
YAP 5	16	14.0	12.6	9.6	4.7	2.1	1.7	114	133	212	260	123			
YAP 7	24	21.0	18.9	14.4	5.4	1.9	1.6	114	133	212	260	123			
YAP 9	32	28.0	25.2	19.2	6.1	1.8	1.5	114	133	212	260	123			
YAP 11	40	35.0	31.5	24.0	8.8	3.5	2.9	190	133	212	260	141			
YAP 13	48	42.0	37.8	28.8	9.5	3.4	2.8	190	133	212	260	141			
YAP 15	56	49.0	44.1	33.6	10.2	3.3	2.7	190	133	212	260	141			
YAP 17	64	56.0	50.4	38.4	11.0	3.2	2.6	190	133	212	260	141			
YCP 7	78	68.7	61.2	47.4	18.2	7.9	6.5	173	203	352	426	179			
YCP 9	104	91.6	81.6	63.2	21.0	7.7	6.3	173	203	352	426	179			
YCP 11	130	114.5	102.0	79.0	22.4	7.1	5.8	173	203	352	426	179			
YCP 13	156	137.4	122.4	94.8	24.4	6.6	5.4	173	203	352	426	179			
YCP 15	182	160.3	142.8	110.6	28.7	9.3	7.6	210	203	349	423	211			
YCP 17	208	183.2	163.2	126.4	30.7	8.9	7.3	210	203	349	423	211			
YCP 19	234	206.1	183.6	142.2	34.9	10.9	8.9	248	203	349	423	211			
YCP 21	260	229.0	204.0	158.0	36.9	10.5	8.6	248	203	349	423	211			
YCP 23	286	251.9	224.4	173.8	41.4	12.6	10.3	286	203	349	423	211			
YCP 25	312	274.8	244.8	189.6	43.4	12.2	10.0	286	203	349	423	211			
YCP 27	338	297.7	265.2	205.4	52.6	16.7	13.7	362	203	349	423	211			
YCP 29	364	320.6	285.6	221.2	54.4	16.3	13.4	362	203	349	423	211			
YCP 31	390	343.5	306.0	237.0	56.4	16.0	13.1	362	203	349	423	211			
YCP 33	416	366.4	326.4	252.8	58.4	15.6	12.8	362	203	349	423	211			
YCP 35	442	389.3	346.8	268.6	60.4	15.3	12.5	362	203	349	423	211			
YHP 11	535	481.5	425.0	321.0	96.7	33.1	27.1	230	368	597	682	255			
YHP 13	645	577.8	510.0	385.2	105.4	31.4	25.7	230	368	597	682	255			
YHP 15	750	674.1	595.0	449.4	135.7	46.5	38.1	306	368	597	682	330			
YHP 17	860	770.4	680.0	513.6	144.4	44.8	36.7	306	368	597	682	330			
YHP 19	965	866.7	765.0	577.8	153.1	43.2	35.4	306	368	597	682	330			
YHP 21	1070	963.0	850.0	642.0	175.6	54.7	44.8	357	368	597	682	394			
YHP 23	1180	1059.3	935.0	706.2	184.4	53.1	43.5	357	368	597	682	394			
YHP 25	1285	1155.6	1020.0	770.4	212.1	68.4	56.1	433	368	597	682	394			
YHP 27	1395	1251.9	1105.0	834.6	220.8	66.9	54.8	433	368	597	682	394			
YHP 29	1500	1348.2	1190.0	898.8	229.6	65.3	53.5	433	368	597	682	394			
YHP 31	1605	1444.5	1275.0	963.0	261.0	81.3	66.6	509	368	597	682	394			
YHP 33	1715	1540.8	1360.0	1027.2	269.6	79.5	65.2	509	368	597	682	394			
YHP 35	1820	1637.1	1445.0	1091.4	278.3	78.0	63.9	509	368	597	682	394			
YHP 37	1930	1733.4	1530.0	1155.6	307.3	93.7	76.8	585	368	597	682	394			
YHP 39	2035	1829.7	1615.0	1219.8	315.7	92.2	75.6	585	368	597	682	394			
YHP 41	2140	1926.0	1700.0	1284.0	324.4	90.4	74.1	585	368	597	682	394			
YHP 43	2250	2022.3	1785.0	1348.2	333.1	88.7	72.7	585	368	597	682	394			

Temperature	Float Voltage
< 5°C	2.30 ± 0.02 VPC.
5°C - 19°C	2.27 ± 0.02 VPC
20°C - 35°C	2.25 ± 0.02 VPC
36°C - 45°C	2.23 ± 0.02 VPC

Cell Type	Ampere Hour		
	535-645	750-1500	1605-2250
Pillars	Single Pillar per Pole	Twin Pillars per Pole	Three Pillars per Pole
Connectors	Single intercell connectors	Twin intercell connectors	Triple intercell connectors



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