

STANDBY BATTERIES

**Faure-X Cells
FCP and FHP**



PRODUCT AND SERVICE BENEFITS

- **Locally-Manufactured Range**
Manufactured by a South African company, proven under South African conditions.
- **Premier Quality**
Conforms to BS 6290 1984 and SANS IEC standards and manufactured to ISO 9001: 2008 quality standards
- **Nationwide After-Sales Support**
Countrywide network of branches and agencies, with access to information to ensure sound technical backup.
- **Proven Reliability**
Some cells were still operating and tested to have full capacity nearly 30 years after their introduction in 1974.
- **Customer Care**
Every standby cell carries a comprehensive product warranty backed by the industry leader and supported by a national distributor network.

DESIGN FEATURES

Designed for all standby duties including power stations, telephone exchanges, switchgear operation, telecommunications, emergency lighting and diesel starting.

Noteworthy advantages of these cells are:

- A simple hydrometer reading indicates the state of charge, facilitating inspection, test and maintenance.
- Float charge operation, always ready for use.
- Life expectancy of 15 years.

POSITIVE PLATE

Are constructed of 5mm industrial grids pasted with a long-life paste formulation, suitable for float charge and cycling applications.

NEGATIVE PLATE

Are of industrial pasted grid construction, for balanced performance and life.

SEPARATORS

Made of microporous rubber, for exceptionally long life and have high degree of porosity, ensuring minimum internal resistance

CELL PILLARS AND CONNECTORS

Specially designed to give minimum resistance – maximum current flow.

TECHNICAL DETAILS

FLOAT CHARGING

As these cells are designed for standby applications they should be float charged to ensure that they remain fully charged, ready for instant use, at all times. Correct float voltage settings may vary depending upon operational differences but as a guideline 2.25 volts per cell at 25°C may be used as a level of charge which will minimise the need for equalising charges whilst providing acceptable life. The installation and maintenance manual should be read for further information.

SPECIFIC GRAVITY

A simple hydrometer reading indicates the state of charge. A fully charged cell will have a specific gravity of 1.250.

VOLTAGE

The nominal voltage is 2 volts per cell, i.e. a nominal 110V battery will have 55 cells. On discharge, the recommended final voltage at which the discharge should be terminated depends on the discharge rate. It is not recommended to continue discharging the cells once the final voltage has been reached as the voltage will fall away at an increasing rate with minimal gain of discharge duration and the risk of over-discharge.

CAPACITY

The capacity of these cells is normally rated at the 10hour rate of discharge although the capacity which can be taken from a cell will vary the discharge rate, as indicated in the capacity table. Capacity is also affected by temperature.

INSTALLATION

These cells can be connected either edge to edge or face to face. The standard method of connection is to follow the shortest distance between two terminals.

RECHARGING

The cell's ampere hour efficiency is 90%. To fully recharge the cells the amount of charge required is equal to the amount of discharge in ampere hours plus 11%.

TRANSPARENT CONTAINERS

Moulded from transparent styrene acrylonitrile (SAN) to provide optimum transparency and very high insulating qualities, eliminating the need for separate cell insulators.

CELL LIDS

Moulded from opaque SAN. Are permanently sealed to the container.

VENT PLUGS

Are of a special design which effectively returns all acid spray to the cell, but allows free exit of oxygen and hydrogen gasses.

Faure-X, Capacities, Weights and Dimensions

Type	Capacity in amp hours at 25°C when discharged in			Initial Charge Current	Weight		Approx Quantity of acid 1.235sg	External dimensions of cell container			Overall height of cells	Centres of cells	Width of single row stillage or stand	Width of double row stillage or stand
	10 Hours	3 Hours	1 Hour		Cell compl. filled	Acid only 1.235sg		Length	Width	Height				
Final Voltage	1.80	1.80	1.75	Amps	Kg	Kg	Litres	mm	mm	mm	mm	mm	mm	mm
FCP 5	64	46	32	5	11.5	6.7	5.4	134	203	349	423	140	400	710
FCP 7	96	69	48	7	12.9	6.4	5.2	134	203	349	423	140	400	710
FCP 9	128	92	64	9	14.2	6.1	5.0	134	203	349	423	140	400	710
FCP 11	160	115	80	11	15.6	5.9	4.8	134	203	349	423	140	400	710
FCP 13	192	138	96	13	17.0	5.6	4.6	134	203	349	423	140	400	710
FCP 15	224	161	112	16	20.8	7.7	6.3	172	203	349	423	178	400	710
FCP 17	256	184	126	18	22.2	7.5	6.1	172	203	349	423	178	400	710
FCP 19	288	207	144	20	23.5	7.3	5.9	172	203	349	423	178	400	710
FCP 21	320	230	160	22	27.4	9.4	7.6	210	203	349	423	209	406	662
FCP 23	352	253	176	25	28.7	9.1	7.4	210	203	349	423	209	406	662
FCP 25	384	276	192	27	33.0	11.3	9.1	248	203	349	423	209	426	742
FCP 27	416	299	208	29	34.3	11.0	8.9	248	203	349	423	209	426	742
FCP 29	448	322	224	31	35.7	10.8	8.8	248	203	349	423	209	426	742
FCP 31	480	345	240	34	39.7	12.9	10.5	286	203	349	423	209	464	818
FCP 33	512	368	256	36	41.0	12.7	10.3	286	203	349	423	209	464	818
FCP 35	544	391	272	38	45.6	14.9	12.1	362	203	349	423	209	542	974
FCP 37	576	414	288	40	47.0	14.7	11.9	362	203	349	423	209	542	974
FCP 39	608	437	304	42	48.3	14.4	11.7	362	203	349	423	209	542	974
FCP 41	640	460	320	44	49.7	14.2	11.5	362	203	349	423	209	542	974
FCP 43	672	483	336	47	51.1	14.0	11.3	362	203	349	423	209	542	974
FHP 13	786	556	353	55	75.8	35.7	28.9	230	368	592	682	240	370	969
FHP 15	920	648	412	64	80.0	34.8	28.2	230	368	592	682	240	370	969
FHP 17	1050	741	470	73	84.2	33.9	27.2	230	368	592	682	240	370	969
FHP 19	1180	834	529	82	88.4	33.0	26.8	230	368	592	682	240	370	969
FHP 21	1310	927	588	91	92.6	32.1	26.0	230	368	592	682	240	370	969
FHP 23	1440	1020	647	100	113.6	47.1	38.2	306	368	592	682	315	370	969
FHP 25	1570	1113	706	109	118.0	46.2	37.4	306	368	592	682	315	370	969
FHP 27	1700	1206	764	119	122.2	45.3	36.7	306	368	592	682	315	370	969
FHP 29	1830	1299	823	128	126.4	44.4	36.0	306	368	592	682	315	370	969
FHP 31	1970	1392	882	137	130.6	43.5	35.2	306	368	592	682	315	370	969
FHP 33	2100	1482	941	147	146.3	53.3	43.1	357	368	592	682	366	360	969
FHP 35	2230	1575	1000	156	150.4	52.4	42.4	357	368	592	682	366	360	969
FHP 37	2360	1668	1058	165	154.7	51.5	41.7	357	368	592	682	366	360	969
FHP 39	2490	1761	1117	174	158.9	50.6	40.9	357	368	592	682	366	360	969
FHP 41	2620	1854	1176	183	163.1	49.7	40.2	357	368	592	682	366	360	969
FHP 43	2750	1947	1235	192	183.5	64.7	42.4	433	368	592	682	379	435	1099
FHP 45	2880	2040	1294	201	187.7	63.8	51.6	433	368	592	682	379	435	1099
FHP 47	3010	2133	1352	210	191.9	62.9	50.9	433	368	592	682	379	435	1099
FHP 49	3140	2226	1411	220	196.1	62.0	50.2	433	368	592	682	379	435	1099
FHP 51	3280	2319	1470	229	200.3	61.1	49.4	433	368	592	682	379	435	1099
FHP 53	3410	2409	1529	238	221.5	76.0	61.6	509	368	592	682	379	510	1249
FHP 55	3540	2502	1588	247	225.7	75.1	60.8	509	368	592	682	379	510	1249
FHP 57	3670	2595	1646	257	229.9	74.2	60.1	509	368	592	682	379	510	1249
FHP 59	3800	2688	1705	266	234.1	73.3	59.4	509	368	592	682	379	510	1249
FHP 61	3930	2781	1764	275	238.3	72.4	58.7	509	368	592	682	379	510	1249
FHP 63	4060	2874	1823	284	261.2	87.6	71.0	585	368	592	682	379	586	1401
FHP 65	4190	2967	1882	293	265.4	86.7	70.2	585	368	592	682	379	586	1401
FHP 67	4320	3060	1940	302	269.6	85.8	69.5	585	368	592	682	379	586	1401
FHP 69	4450	3153	1999	311	273.8	84.9	68.8	585	368	592	682	379	586	1401

The length of a stand is n x cell centre where n is the number of cells in a row.

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