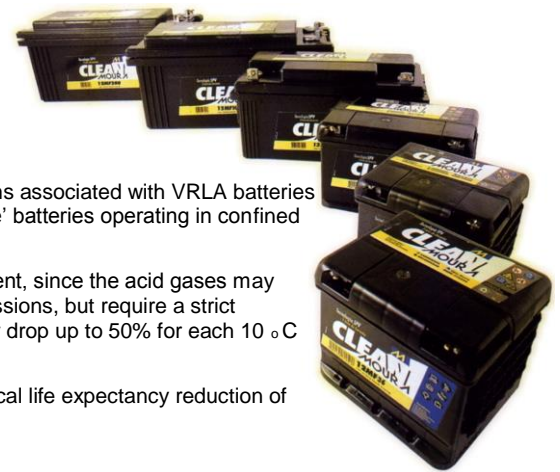


Selective Permeability Valve - SPV Batteries



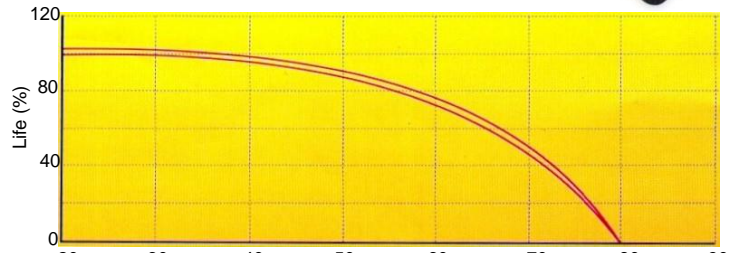
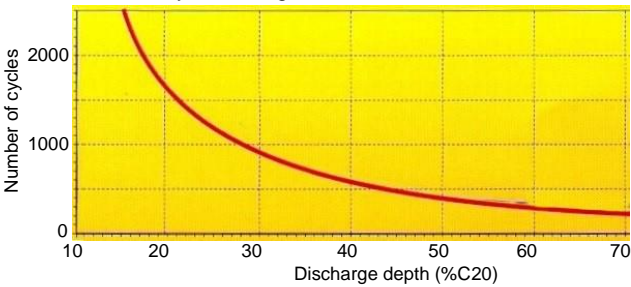
Designed for High Temperature Operation.



The Moura Clean Batteries with SPV technology were specially designed to overcome the problems associated with VRLA batteries operating in high temperatures, and the ones associated with vented batteries or 'low maintenance' batteries operating in confined spaces with electronic equipment.

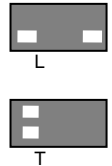
Vented or 'low maintenance' batteries are not appropriate for operation close to electronic equipment, since the acid gases may cause corrosion and equipment damage. On the other hand, VRLA batteries do not allow gas emissions, but require a strict temperature control to avoid drastic lifetime reductions. The life expectancy of a VRLA battery may drop up to 50% for each 10 °C above the specified temperature.

As a comparison, Moura Clean batteries may operate at 50 °C (25 °C above specified) with a typical life expectancy reduction of 10%, and with very low acid gases emissions.



Model	Nominal Voltage	Capacity 5h (Ah)	Capacity 10h (Ah)	Capacity 20h (Ah)	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Icc (A)	Rint (ohm)	Terminais	Layout	RF COM PN
12MF30	12	24	27	30	197	130	184	10,8	1400	8,7	M6	L	59075
12MF36	12	24	27	30	197	130	184	10,8	1400	8,7	M6	L	15977
12MF45	12	37	41	45	212	175	175	12,6	1763	6,9	M6	L	15979
12MF45A	12	37	41	45	212	175	190	12,7	1763	6,9	M6	L	59076
12MF55	12	44,2	50	55	242	175	175	14,9	1987	6,2	M6	L	28124
12MF80	12	60,3	72	80	306	172	227	24,1	2534	4,9	M6	L	28126
12MF100	12	81,8	92	100	397	105	280	25,4	2346	5,2	M6*	T	59077
12MF105	12	87,2	95	105	330	172	244	27,3	2516	4,9	M8	L	15983
12MF150	12	115,3	135	150	509	211	246	43,7	4013	3,1	M8	T	15985
12MF170	12	132,7	155	170	560	125	316	52,0	3725	3,3	M8*	T	59078
12MF175	12	136,5	160	175	517	272	246	54,2	4813	2,5	M8	T	15987
12MF220	12	179,4	200	220	517	272	246	57,8	4840	2,5	M8	T	15989

Layouts :



\* inserto com rosca vertical. Demais modelos: Lingueta vertical com furo horizontal

Unipower 12V Sealed (VRLA) Batteries

Model	UP1213	UP1223	UP1245	UP1250	UP1270	UP1272	UP1290	UP12120	UP12180	UP12260	UP12280	UP12350	UP12400	UP12440	UP12550
Nominal Cap (Ah)	1,3	2,3	4,5	5,0	7,0	7,2	9,0	12,0	18,0	26,0	28,0	35,0	40,0	44,0	55,0
Terminal	F	F	F	F	F	F	F	F	M5	M5	M5	M6	M6	M6	M6
Layout	T	L	L	L	T	T	T	T	L	L	L	L	L	L	L
CxLxA (mm)	98x43x57	179x35x66	90x70x106	90x70x106	151x65x100	151x65x100	151x65x100	151x98x100	181x77x167	175x166x125	175x166x125	196x131x170	197x166x171	176x166x171	230x138x216
Weight (kg)	0,58	0,97	1,56	1,7	2,0	2,35	2,78	3,7	5,6	7,8	8,6	10,5	13,5	13,8	17,5
Part #	59128	59126	59125	59124	59123	59122	35108	59121	10327	59120	39978	59119	37719	59097	59096

Model	UP12650	UP12700P	UP12700G	UP12800P	UP12800G	UP12900	UP121000	UP121200	UP121500	UP121800	UP122000	UP122300	UP122500
Nominal Cap (Ah)	65,0	70,7	70,0	80,0	80,0	90,0	100,0	120,0	150,0	180,0	200,0	230,0	250,0
Terminal	M6	M6	M6	M6	M6	M6	M8	M8	M8	M8	M8	M8	M8
Layout	L	L	L	L	L	L	L	L	T	T	T	T	T
CxLxA (mm)	350x166x179	260x169x216	350x166x179	260x169x215	350x166x179	307x169x216	331x173x218	407x174x233	484x171x241	530x209x221	522x240x244	520x268x255	520x268x241
Weight (kg)	22	23	22	23,5	23	28	30,8	38	44	55	61,5	69,5	73
Part #	48671	59095	59094	59093	59092	59091	45927	58626	43923	50851	46222	59090	59089

Model	UPF12550	UPF12750	UPF12800	UPF121000	UPF121050	UPF121200	UPF121250	UPF121500	UPF121550	UPF121800
Nominal Cap (Ah)	55	75	80	100	105	120	125	150	155	180
Terminal	M6	M8	M8	M8	M8	M8	M8	M8	M8	M8
Layout	F	F	F	F	F	F	F	F	F	F
CxLxA (mm)	277x106x222	562x114x188	562x114x188	394x109x285	507x109x238	551x109x239	437x108x317	551x109x287	547x125x317	560x125x316
Weight (kg)	19	27	28	35	35	38	39	50	47	55
Part #	59088	59087	59086	59050	59048	59046	59064	59063	59084	59083

Terminals: F = Faston, Mx = vertical threaded hole insert

Layout T: Transversal terminals



Layout L: Longitudinal terminals



Layout F: Front terminals with cover

