ACES Lithium LiFePO4 Batteries HF series specifications

MODEL NAME	AL24V80HFP	AL24V100HFP	AL48V72HFC	AL48V90HFC	AL48V80HFP	AL48V100HFP	AL48V200HFP	AL48V300HFP	AL72V60HFC	AL12V50HF	AL12V80HF
ELECTRICAL											
Voltage (V)	24	24	48	48	48	48	48	48	72	12	12
Nominal voltage	25.6	25.6	51.2	51.2	51.2	51.2	51.2	51.2	73.6	12.8	12.8
Capacity (AH)	80	100	72	90	80	100	200	300	60	50	80
Energy (Wh)	2048	2560	3686	4608	4096	5120	10240	15360	4416	640	1024
Cycle Life (80% DOD) 0.2C	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Parallel connection	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4	Up to 2	Up to 2	Up to 4	0	0
Series connection	no	no	no	no	no	no	no	no	no	2	2
DISCHARGE											
Continuous current (A)	80	80	72	72	80	100	150	200	60	50	50
Peak current 5 sec (A)	240	240	240	240	240	240	400	500	180	150	150
Overdischarge protect level (V)	20	20	40	40	40	40	40	40	60	10	10
Short circuit protection delay	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us	10-20 us
CHARGE											
Max. charge current	40	50	36	36	40	50	100	100	30	25	40
Recommended charge current	10...40	10...40	10...36	10...45	10...40	10...40	20...60	20...100	6...30	5...20	10...25
Charge Voltage max. (100% SOC	28.8	28.8	57.6	57.6	57.6	57.6	57.6	57.6	82.8	14.4	14.4
Recommended charger model	ABC700-2420LF	ABC700-2420LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC2000-4835LF	ABC3300-4850LF	ABC2000-7225LF	ABC150-1210LF	ABC150-1210LF
MECHANICAL											
Dimensions (mm)	266 x 156 x 268	266 x 156 x 310	435 x 253 x 237	540 x 253 x 237	393 x 247 x 248	393 x 297 x 248	570 x 297 x 317	818 x 297 x 317	374 x 264 x 305	270 x 220 x 290	270 x 220 x 290
Weight (kg)	18	23	35	35	36	44	81	118	35	7	8.5
Protection IP class	65	65	65	65	65	65	65	65	65	65	65
Terminals	M8	M8	M8	M8	M8	M8	M8	M8	M8	SB50	SB50
Cell type (LiFePO4)	Prismatic	Prismatic	Cylindric	Cylindric	Prismatic	Prismatic	Prismatic	Prismatic	Cylindric	Cylindric	Prismatic
TEMPERATURE											
Discharge Temperature	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C
Charge Temperature	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C	0...50°C
Storage Temperature	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C	-20...60°C
BMS Cut-Off temperature	67°C	67°C	67°C	67°C	67°C	67°C	67°C	67°C	67°C	67°C	67°C