ACES Lithium LiFePO4 Batteries HF series specifications

MODEL NAME	AL24V80HFP	AL24V100HFP	AL48V72HFC	AL48V90HFC	AL48V80HFP	AL48V100HFP	AL48V200HFP	AL48V300HFP	AL12V50HF	AL12V80HF
ELECTRICAL										
Voltage (V)	24	24	48	48	48	48	48	48	12	12
Nominal voltage	25,6	25,6	51,2	51,2	51,2	51,2	51,2	51,2	12,8	12,8
Capacity (AH)	80	100	72	90	80	100	200	300	50	80
Energy (Wh)	2048	2560	3686	4608	4096	5120	10240	15360	640	1024
Cycle Life (80% DOD) 0.2C	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	0	0
Series connection	no	no	no	no	no	no	no	no	2	2
DISCHARGE										
Continuous current (A)	80	80	72	72	80	100	150	200	50	50
Peak current 5 sec (A)	240	240	240	240	240	240	400	500	150	150
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
CHARGE										
Max. charge current	40	50	36	36	40	50	100	100	25	40
Recommended charge current	10...40	10...40	10...36	10...45	10...40	10...40	20...60	20...100	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	14,4	14,4
Recommended charger model	ABC700-2420LF	ABC700-2420LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC2000-4835LF	ABC3300-4850LF	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	270 x 220 x 290	270 x 220 x 290
Weight (kg)	18	23	35	35	36	44	81	118	7	8,5
Protection IP class	65	65	65	65	65	65	65	65	65	65
Terminals	M8	M8	M8	M8	M8	M8	M8	M8	SB50	SB50
Cell type (LiFePO4)	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic	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
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
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
BMS protections										
Discharge Cutof voltage	20V	20V	40V	40V	40V	40V	40V	40V	10V	10V
Charge Voltage max.	28.8...29.2V	28.8...29.2V	57.6...58.4V	57.6...58.4V	57.6...58.4V	57.6...58.4V	57.6...58.4V	57.6...58.4V	14.4...14..6V	14.4...14..6V
Shortcircuit, overload, fuse	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
BMS Cut-Off temperature	65°C...70°C	65°C...70°C	65°C...70°C	65°C...70°C	65°C...70°C	65°C...70°C	65°C...70°C	65°C...70°C	65°C...70°C	65°C...70°C