ACES Lithium LiFePO4 Batteries HF series specifications

MODEL NAME	AL24V80HFP	AL24V100HFP	AL48V72HFC	AL48V80HFP	AL48V100HFP	AL48V160HFP	AL48V200HFP	AL48V300HFP	AL72V60HFC	AL72V100HFP
ELECTRICAL										
Voltage (V)	24	24	48	48	48	48	48	48	72	72
Nominal voltage	25.6	25.6	51.2	51.2	51.2	51.2	51.2	51.2	73.6	73.6
Capacity (AH)	80	100	72	80	100	160	200	300	60	100
Energy (Wh)	2048	2560	3686	4096	5120	8192	10240	15360	4416	7360
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 4	Up to 4	Up to 4	Up to 4
Series connection	no	no	no	no	no	no	no	no	no	no
DISCHARGE										
Discharge current (A)	80	80	72	80	100	130	150	180	60	80
Peak current (A)	240	240	240	240	300	300	400	500	180	200
Overdischarge protect level (V)	20	20	40	40	40	40	40	40	60	60
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	40	50	100	100	100	30	40
Recommended charge current	10...40	10...40	10...36	10...40	10...40	20...60	20...60	20...100	6...30	6...40
Charge Voltage max. (100% SOC)	28.8	28.8	57.6	57.6	57.6	57.6	57.6	57.6	82.8	82.8
Recommended charger model	ABC700-2420LF	ABC700-2420LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC2000-4835LF	ABC3300-4850LF	ABC2000-7225LF	ABC2000-7225LF
MECHANICAL										
Dimensions (mm)	269 x 159 x 279	269 x 159 x 318	435 x 253 x 237	393 x 247 x 248	396 x 297 x 248	573 x 300 x 275	573 x 300 x 318	821 x 300 x 318	374 x 264 x 305	416 x 372 x 262
Weight (kg)	18	23	35	36	44	65	81	118	40	64
Protection IP class	65	65	65	65	65	65	65	65	65	65
Terminals	M8	M8	M8	M8	M8	M8	M8	M8	M8	M8
Cell type (LiFePO4)	Prismatic	Prismatic	Cylindric	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 Cut-Off temperature	67°C	67°C	67°C	67°C	67°C	67°C	67°C	67°C	67°C	67°C