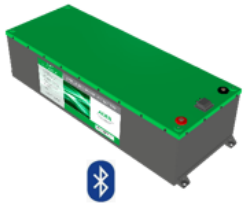
ACES Lithium LiFePO4 Batteries HF series specifications 24-48V

MODEL NAME	AL24V80HFP	AL24V100HFP	AL48V72HFC	AL48V80HFP	AL48V100HFP	AL48V160HFP	AL48V200HFP
EAN number	4738471069023	4738472276536	4738479545574	4738474226959	4738476131657	4738478446971	4738477302087
ELECTRICAL							
Voltage (V)	24	24	48	48	48	48	48
Nominal voltage	25.6	25.6	51.2	51.2	51.2	51.2	51.2
Capacity (AH)	80	100	72	80	100	160	200
Energy (Wh)	2048	2560	3686	4096	5120	8192	10240
Cycle Life (80% DOD) 0.2C	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
Series connection	no	no	no	no	no	no	no
DISCHARGE							
Discharge current (A)	80	80	72	80	100	130	150
Peak current 5 sec (A)	240	240	240	240	300	300	400
Overdischarge protect level (V)	20	20	40	40	40	40	40
Short circuit protection	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
CHARGE							
Max. charge current	40	50	36	40	50	100	100
Recommended charge current	10...40	10...40	10...36	10...40	10...40	20...60	20...60
Charge Voltage max. (100% SOC)	28.8	28.8	57.6	57.6	57.6	57.6	57.6
Recommended charger model	ABC700-2420LF	ABC700-2420LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC1350-4825LF	ABC2000-4835LF
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
Weight (kg)	18	23	35	36	44	65	81
Protection IP class	65	65	65	65	65	65	65
Terminals	M8	M8	M8	M8	M8	M8	M8
Cell type (LiFePO4)	Prismatic	Prismatic	Cylindric	Prismatic	Prismatic	Prismatic	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
Charge Temperature	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
BMS Cut-Off temperature	67°C	67°C	67°C	67°C	67°C	67°C	67°C

ACES Lithium LiFePO4 Batteries HF series specifications 48-72-96V

MODEL NAME	AL48V280HFP-BT	AL48V300HFP	AL48V210HFP-BTC	AL48V315HFP-BTC	AL48V420HFP-BTC	AL72V60HFC	AL72V100HFP
EAN number	4738474997323	4738472496255	4738471253859	4738477657125	4738473635950	4738470348563	4738476404171
							
Voltage (V)	48	48	48	48	48	72	72
Nominal voltage	51.2	51.2	51.2	51.2	51.2	73.6	73.6
Capacity (AH)	280	300	210	315	420	60	100
Energy (Wh)	14336	15360	10752	16128	21504	4416	7360
Cycle Life (80% DOD) 0.2C	4000	3000	4000	4000	4000	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
Series connection	no	no	no	no	no	no	no
CAN and or Bluetotoh	CAN-bus		CAN + BT	CAN + BT	CAN + BT		
DISCHARGE							
Discharge current (A)	250	180	220	220	220	60	80
Peak current 5 sec (A)	500	500	400	500	500	180	200
Overdischarge protect level (V)	40	40	40	40	40	60	60
Short circuit protection	Fuse	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
CHARGE							
Max. charge current	140	100	100	100	100	30	40
Recommended charge current	20...140	20...100	20...100	20...100	20...100	6...30	6...40
Charge Voltage max. (100% SOC	57.6	57.6	57.6	57.6	57.6	82.8	82.8
Recommended charger model	ABC3000-4850LF	ABC3000-4850LF	ABC3000-4850LF	ABC3000-4850LF	ABC3000-4850LF	ABC2000-7225LF	ABC2000-7225LF
MECHANICAL							
Dimensions (mm)	761 x 396 x 233	821 x 300 x 318	537 x 376 x 271	769 x 376 x 271	1001 x 376 x 271	374 x 264 x 305	416 x 372 x 262
Weight (kg)	112	118	82	125	170	40	64
Protection IP class	65	65	65	65	65	65	65
Terminals	M8	M8	M8	M8	M8	M8	M8
Cell type (LiFePO4)	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
Charge Temperature	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
BMS Cut-Off temperature	67°C	67°C	67°C	67°C	67°C	67°C	67°C