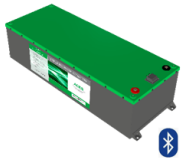
ACES Lithium LiFePO4 Batteries HF series specifications 48-72-96V

MODEL NAME	AL48V30HFX-BT	AL48V60HFX-BT	AL48V160HFP	AL48V200HFP	AL48V300HFP	AL48V230HFPE-BC	AL48V315HFPG-BC	AL48V420HFPG-BC	AL72V100HFPG-BT	AL96V105HFPE-BC	AL96V230HFPE-BC
EAN number	4738477281177	4738473975407	4738478446971	4738477302087	4738472496255	4738477140511	4738477657125	4738473635950	4738476404171	4738477281177	4738477140511
Status	new	new				new	new	new		new	new
			Not for new designs	Not for new designs	Not for new designs						
Voltage (V)	48	48	48	48	48	48	48	48	72	96	96
Nominal voltage (V)	51,2	51,2	51,2	51,2	51,2	51,2	51,2	51,2	73,6	96	96
Capacity (AH)	30	60	160	200	300	230	315	420	100	105	230
Energy (Wh)	1536	3072	8192	10240	15360	11776	16128	21504	7360	10080	22080
Cycle Life (80% DOD) 0.2C	4000	4000	3000	3000	3000	4000	4000	4000	4000	4000	4000
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	Up to 4
Series connection	no	no	no	no	no	no	no	no	no	no	no
CAN and or Bluetooh	BT	BT	Option	Option	Option	CAN + BT	CAN + BT	CAN + BT	BT	CAN + BT	CAN + BT
DISCHARGE											
Discharge current (A)	60	120	130	150	180	250	300	300	100	150	200
Peak current <5 sec (A)	120	200	300	400	500	400	500	500	200	300	500
Overdischarge protect level (V)	40	40	40	40	40	40	40	40	60	75	75
Short circuit protection	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
CHARGE											
Max. charge current (A)	30	60	100	100	100	100	100	100	50	50	100
Recommended charge current (	3...15	6...30	20...60	20...60	20...100	20...100	20...100	20...100	6...50	10...50	20...80
Charge Voltage max. (100% SOC	57,6	57,6	57,6	57,6	57,6	57,6	57,6	57,6	82,8	108	108
Float voltage (V)	54	54	54	54	54	54	54	54	54	100	100
Recommended charger model	ABC300F-4805LF	ABC700-4810LF	ABC1350-4825LF	ABC2000-4835LF	ABC3300-4850LF	ABC3300-4850LF	ABC3300-4850LF	ABC3300-4850LF	ABC2000-7225LF	ABC3300-9630LF	ABC5000-9650LF
MECHANICAL											
Dimensions (mm)	306 x 270 x 195	410 x 342 x 204	573 x 300 x 275	573 x 300 x 318	821 x 300 x 318	590 x 374 x 270	769 x 376 x 271	1001 x 376 x 271	416 x 372 x 262	626 x 287 x 270	891 x 374 x 270
Weight (kg)	14	27	65	81	118	88	125	173	64	81	156
Protection IP class	65	65	65	65	65	65	65	65	65	65	65
Terminals	SB50	SB120	M8	M8	M8	M8	M8	M8	M8	M8	M8
Cell type (LiFePO4)	Pouch	Pouch	Prismatic	Prismatic	Prismatic	Prismatic	Prismatic	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	-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	70°C	70°C	67°C	67°C	67°C	70°C	70°C	70°C	70°C	70°C	70°C