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

Rev 2.1

MODEL NAME	AL48V30HFX-BT	AL48V30HFX2-BT	AL48V195HFPS-BC	AL48V230HFPE-BC	AL48V460HFPE-BC	AL72V100HFPG-BT	AL96V105HFPE-BC	AL96V230HFPE-BC
EAN number	4738479981525	4738473238915	4738472633698	4738477140511	4738477436379	4738476404171	4738477281177	4738473975407
Status	2C version	1C version	new	new	new		new	new
	BT	BT	BT, CAN bus	BT, CAN bus	BT, CAN bus	BT	BT, CAN bus	BT, CAN bus
Voltage (V)	48	48	48	48	48	72	96	96
Nominal voltage (V)	51.2	51.2	51.2	51.2	51.2	73.6	96	96
Capacity (AH)	30	30	195	230	460	100	105	230
Energy (Wh)	1536	1536	9984	11776	23552	7360	10080	22080
Cycle Life (80% DOD) 0.2C	4000	6000	6000	6000	6000	4000	6000	6000
Parallel connection	Up to 4	Up to 4	Up to 12	Up to 8	Up to 8	Up to 4	Up to 8	Up to 8
Series connection	no	no	no	no	no	no	no	no
CAN and or Bluetooh	BT	BT	CAN + BT	CAN + BT	CAN + BT	BT	CAN + BT	CAN + BT
CAN-bus protocol	n.a.	n.a.	ACES, Victron-Ve, NMEA2000	ACES, Victron-Ve, NMEA2000	ACES, Victron-Ve, NMEA2000	n.a.	ACES, Victron-Ve, NMEA2000	ACES, Victron-Ve, NMEA2000
DISCHARGE								
Discharge current op to 20% SOC (A)	60 (2C)	30 (1C)	200	220	400	100	160	200
Peak current <5 sec (A)	120	120	400	400	800	200	400	400
Overdischarge protect level (V)	43	43	43	43	43	65	81	81
Short circuit protection	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
CHARGE								
Max. charge current (A)	30	15	200	200	400	100	100	200
Recommended charge current (A)	3...15	3...15	20...100	20...100	40...200	6...50	10...50	20...80
Charge Voltage max. (100% SOC)	57.6	57.6	57.6	57.6	57.6	82.8	108	108
Float voltage (V)	54	54	54	54	54	54	100	100
Recommended charger model	ABC300F-4805LF	ABC300F-4805LF	ABC3300-4850LF	ABC3300-4850LF	ABC5000-4880LF	ABC2000-7225LF	ABC3300-9630LF	ABC5000-9650LF
MECHANICAL								
Dimensions (mm)	306 x 270 x 195	306 x 270 x 195	692 x 404 x 138	525 x 410 x 266	977 x 410 x 266	416 x 372 x 262	648 x 323 x 266	907 x 410 x 266
Weight (kg)	14	12	73	91	173	64	81	163
Protection IP class	65	65	65	65	65	65	65	65
Terminals	SB50	SB50	M8 / HVP-1P8-50mm2	HVP-1P8-50mm2	HVP-1P8-50mm2	M8	HVP-1P8-50mm2	HVP-1P8-50mm2
Cell type (LiFePO4)	Pouch	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
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
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
BMS Cut-Off temperature	70°C	70°C	70°C	70°C	70°C	70°C	70°C	70°C