









## 12V LiFePO4 series technical specifications 24-100AH

				
Description	12.8V 24AH	12.8V 60AH	12.8V 80AH	12.8V 100AH
Model name	AL12V24HFA	AL12V60HFA-BT	AL12V80HFA-BT	AL12V100HFA-BT
EAN / GTIN	4738474176742	4738479938789	4738476325483	4738475950945
Rated Capacity	24AH / 307WH	60AH / 768WH	80AH / 1024WH	100AH / 1280WH
Discharge current	24A	60A	80A	100A
Peak discharge current	100A	200A	300A	300A
Maximum charge current	24A	60A	80A	100A
Recommended charge current	2...12A	6...30A	10...40A	10...50A
Nominal Voltage	12.8V			
Operational Voltage range	11.0...13.5V			
BMS cutoff Voltage	10V			
Cycle Life 0.2C 80% DOD	4000			
Charge end voltage range	14.2...14.6V (13.5V float Voltage)			
Charge characteristic	CC / CV			
Battery Management System	Integrated			
Serial connection	Not allowed			
Parallel connection	Up to 4 batteries			
Bluetooth monitoring	no	Yes inside; App available for Android and Iphone		
IP protection rating	IP65			
Temperature range discharge	-20°C ... +60 °C			
Temperature range charge	0°C ... +45 °C			
Temperature storage <1 month	-20°C ... +50 °C			
Temperature storage >1 month	5 °C ... +30 °C			
Connection	M5	M8	M8	M8
Weight	3 kg	7.2 kg	9.3 kg	11.5 kg
Dimensions (L x W x H) in mm	181 x 76 x 167	197 x 166 x 173	260 x 168 x 209	306 x 168 x 211

## 12V LiFePO4 series technical specifications 150-400AH

			
Description	12.8V 150AH	12.8V 200AH	12.8V 320AH /400AH
Model name	AL12V150HFA-BT	AL12V200HFA-BT	AL12V320HFA-BT AL12V400HFA-BT
EAN / GTIN	4738479950491	4738476085431	4738470491856 (320AH) 4738477621232 (400AH)
Rated Capacity	150AH / 1920WH	200Ah / 2560WH	320AH / 4096WH 400AH / 5120WH
Discharge current	150A	150A	150A
Peak discharge current	360A	360A	360A
Maximum charge current	150A	150A	150A
Recommended charge current	15...75A	20...100A	20...150A
Nominal Voltage	12.8V		
Operational Voltage range	11.0...13.5V		
BMS cutoff Voltage	10V		
Cycle Life 0.2C 80% DOD	>4000		
Charge end voltage range	14.2...14.6V (13.5V float Voltage)		
Charge characteristic	CC / CV		
Battery Management System	Integrated		
Serial connection	Not allowed		
Parallel connection	Up to 4 batteries		
Bluetooth monitoring	Yes inside; App available for Android and Iphone		
IP protection rating	IP65		
Temperature range discharge	-20°C ... +60 °C		
Temperature range charge	0°C ... +45 °C		
Temperature storage <1 month	-20°C ... +50 °C		
Temperature storage >1 month	5 °C ... +30 °C		
Connection	M8	M8	M8
Weight	19 kg	23 kg	32 kg (320AH) 39 kg (400AH)
Dimensions (L x W x H) in mm	483 x 170 x 240	522 x 239 x 218	522 x 267 x 218





## 24V LiFePO4 series technical specifications 12-50AH

			
Description	25.6V 12AH	25.6V 30AH	25.6V 50AH
Model name	AL24V12HFA	AL24V30HFA-BT	AL24V50HFA-BT
EAN / GTIN	4738474993882	4738470670572	4738475996288
Rated Capacity	12AH / 307WH	30AH / 768WH	50AH / 1280WH
Discharge current	12A	30A	50A
Peak discharge current	80A	140A	220A
Maximum charge current	12A	30A	50A
Recommended charge current	1...6A	3...15A	5...25A
Nominal Voltage	25.6V		
Operational Voltage range	22.0...27V		
BMS cutoff Voltage	20V		
Cycle Life 0.2C 80% DOD	>4000		
Charge end voltage range	28.4...29.2V (27V float Voltage)		
Charge characteristic	CC / CV		
Battery Management System	Integrated		
Serial connection	Not allowed		
Parallel connection	Up to 4 batteries		
Bluetooth monitoring	no	Yes inside; App available for Android and Iphone	
IP protection rating	IP65		
Temperature range discharge	-20°C ... +60 °C		
Temperature range charge	0°C ... +45 °C		
Temperature storage <1 month	-20°C ... +50 °C		
Temperature storage >1 month	5 °C ... +30 °C		
Connection	M5	M8	M8
Weight	3 kg	7.2 kg	12.8 kg
Dimensions (L x W x H) in mm	181 x 76 x 167	197 x 166 x 173	306 x 168 x 211


## 24V LiFePO4 series technical specifications 80-200AH

			
Description	25.6V 84AH	25.6V 100AH	25.6V 160AH / 200AH
Model name	AL24V84HFA-BT	AL24V100HFA-BT	AL24V160HFA-BT AL24V200HFA-BT
EAN / GTIN	4738478485765	4738479791995	4738475180120 (160AH) 4738472410213 (200AH)
Rated Capacity	84AH / 2048WH	100AH / 2560WH	160AH / 4096WH 200AH / 5120WH
Discharge current	80A	100A	150A
Peak discharge current	350A	350A	400A
Maximum charge current	80A	100A	150A
Recommended charge current	8...40A	10...50A	16...80A
Nominal Voltage	25.6V		
Operational Voltage range	22.0...27V		
BMS cutoff Voltage	20V		
Cycle Life 0.2C 80% DOD	>4000		
Charge end voltage range	28.4...29.2V (27V float Voltage)		
Charge characteristic	CC / CV		
Battery Management System	Integrated		
Serial connection	Not allowed		
Parallel connection	Up to 4 batteries		
Bluetooth monitoring	Yes inside; App available for Android and Iphone		
IP protection rating	IP65		
Temperature range discharge	-20°C ... +60 °C		
Temperature range charge	0°C ... +45 °C		
Temperature storage <1 month	-20°C ... +50 °C		
Temperature storage >1 month	5 °C ... +30 °C		
Connection	M8	M8	M8
Weight	19 kg	22.5 kg	32 kg (160AH) 39 kg (200AH)
Dimensions (L x W x H) in mm	483 x 170 x 240	522 x 239 x 218	522 x 267 x 218

## 48V LiFePO4 series technical specifications 12-100AH

				
Description	51.2V 12AH*	51.2V 18AH*	51.2V 30AH*	51.2V 80AH / 100AH
Model name	AL48V12HFA-BT	AL48V18HFA-BT	AL48V30HFA-BT	AL48V80HFA-BT AL48V100HFA-BT
EAN / GTIN	4738470107085	4738478548255	4738478298242	4738470112966 (80AH) 4738475050539 (100AH)
Rated Capacity	12AH / 614WH	18AH / 921WH	30AH / 1536WH	80AH / 4096WH 100AH / 5120WH
Discharge current	12A	18A	30A	80A / 100A
Peak discharge current	60A	80A	100A	220A
Maximum charge current	12A	18A	30A	80 / 100A
Recommended charge current	2...6A	3...9A	3...15A	8...40A / 10...50A
Nominal Voltage	51.2V			
Operational Voltage range	44.0...54V			
BMS cutoff Voltage	40V			
Cycle Life 0.2C 80% DOD	>4000			
Charge end voltage range	57.6...58.4V (54V float Voltage)			
Charge characteristic	CC / CV			
Battery Management System	Integrated			
Serial connection	Not allowed			
Parallel connection	Up to 4 batteries			
Bluetooth monitoring	Yes inside; App available for Android and Iphone			
IP protection rating	IP65			
Temperature range discharge	-20°C ... +60 °C			
Temperature range charge	0°C ... +45 °C			
Temperature storage <1 month	-20°C ... +50 °C			
Temperature storage >1 month	5 °C ... +30 °C			
Connection	M8	M8	M8	M8
Weight	6 kg	8 kg	13.5 kg	32 kg (80AH) 39kg (100AH)
Dimensions (L x W x H) in mm	197 x 166 x 173	260 x 168 x 209	330 x 172 x 215	522 x 267 x 218

## 72V LiFePO4 series technical specifications 30-60AH

		
Description	73.6V 30AH*	73.6V 60AH*
Model name	AL72V30HFA-BT	AL72V60HFA-BT
EAN / GTIN	4738475685267	4738475648910
Rated Capacity	30AH / 2208WH	60AH / 4416WH
Discharge current	30A	60A
Peak discharge current	120A	200A
Maximum charge current	30A	60A
Recommended charge current	3...15A	6...30A
Nominal Voltage	73.6V	
Operational Voltage range	63.0...77.6V	
BMS cutoff Voltage	58V	
Cycle Life 0.2C 80% DOD	>4000	
Charge end voltage range	80...82.8V (77.6V float Voltage)	
Charge characteristic	CC / CV	
Battery Management System	Integrated	
Serial connection	Not allowed	
Parallel connection	Up to 4 batteries	
Bluetooth monitoring	Yes inside; App available for Android and Iphone	
IP protection rating	IP65	
Temperature range discharge	-20°C ... +60 °C	
Temperature range charge	0°C ... +45 °C	
Temperature storage <1 month	-20°C ... +50 °C	
Temperature storage >1 month	5 °C ... +30 °C	
Connection	M8	M8
Weight	17 kg	34 kg
Dimensions (L x W x H) in mm	483 x 170 x 240	522 x 267 x 218