

ACES sealed battery chargers 700-3300W



ACES sealed battery chargers are based on the latest technologies that result in very compact size and low weight. This is accomplished by high frequency LLC conversion technology that has a very high efficiency of about 94%. All the chargers have Power Factor Correction (PFC) resulting in clean sinewave shaped AC-mains current and the lowest possible current draw from the grid. Combining this with a sealed IP67 design and a very high reliability makes this chargers very attractive for many applications. These chargers are tested under harsh conditions and more than 100000 are already operating in field applications. The chargers are available in 4 power classes of 700, 1350, 2000, 3300W for Lithium or Lead Acid.

Model overview

Voltage	Current (A)						
	5-10	10-15	15-20	20-25	25-30	30-35	35-50
12-16V							
24-34V							
36-51V							
48-68V							
60-85V							
72-102V							
80-113V							
144-168V							
Model >	700W		1350W		2000W		3300W



700W



1350W



2000W



3300W

Battery chargers for battery type








The ACES battery chargers can be used for following battery types:

- LA series
Lead acid batteries AGM and Flooded (not suitable for GEL)
- LI series
Lithium Ion NMC or NCA batteries
- LF series
Lithium Iron Phosphate (LFP) batteries
These chargers have a unique cell balancing mode at the end of charging












Technical specification

- Input voltage 170-264V ac; 45-65Hz
- Efficiency: > 94%
- Power factor: > 0.99
- Noise: < 45dBA
- Temperature range: -20...45°C
- Protection level: IP67
- Protections: Over temperature, Reverse connection, Idle, Short circuit, auto stop, charge below 0°C (Lithium)
- Interlock protection to prevent drive away during charging (not on 700W model)
- CAN-bus and 12V auxiliary output (not on 700W model)
- CE certification












List of available models LA (Lead Acid)

Model name and Order code	Picture	Nominal Voltage	Max. Charge Voltage	Max. charge curr A	Min Capacity (Ah)	Max Capacity (Ah)	Battery type	Interlock protection	Temp comp 0°C protect	DC out Connector	DC out cable	Weight (kg)	Dimensions (mm)	IP rating
ABC700-2420LA		24	29,4	20	160	320	AGM	no	no	SB50	2m 4mm2	2	187 x 123 x 68	67
ABC1350-2425LA		24	28,8	25	200	400	AGM	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC1350-4825LA		48	58,8	25	200	400	AGM	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC1350-7218LA		72	88,2	18	120	240	AGM	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC2000-2450LA		24	29,4	50	400	800	AGM	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC2000-4835LA		48	58,8	35	250	500	AGM	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC2000-7225LA		72	88,2	25	200	400	AGM	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67

List of available models LI (Lithium Ion NMC)

Model name and Order code	Picture	Nominal Voltage	Max. Charge Voltage	Max. charge curr A	Min Capacity (AH)	Max Capacity (Ah)	Battery type	Interlock protection	Temp comp 0°C protect	DC out Connector	DC out cable	Weight (kg)	Dimensions (mm)	IP rating
ABC700-1220LI		12	14,6	20	20	200	LI	no	no	SB50	2m 4mm2	2	187 x 123 x 68	67
ABC700-2420LI		24	29,4	20	20	200	LI	no	no	SB50	2m 4mm2	2	187 x 123 x 68	67
ABC700-4810LI		48	58,5	10	10	100	LI	no	no	SB50	2m 4mm2	2	187 x 123 x 68	67
ABC1350-2425LI		24	29,4	50	25	250	LI	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC1350-4825LI		48	58,5	25	25	250	LI	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC1350-7218LI		72	84	18	18	180	LI	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC2000-2450LI		24	29,4	50	50	500	LI	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC2000-4835LI		48	58,5	35	35	350	LI	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC2000-7225LI		72	84	25	25	250	LI	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC3300-4850LI		48	58,5	50	50	500	LI	yes	yes	SB50	3m 10mm2	6	350 x 188 x 99	67
ABC3300-7235LI		72	84	35	35	350	LI	yes	yes	SB50	3m 10mm2	6	350 x 188 x 99	67

List of available models LF (lithium Ion LFP or LiFePO4)

Model name and Order code	Picture	Nominal Voltage	Max. Charge Voltage	Max. charge curr A	Min Capacity (AH)	Max Capacity (Ah)	Battery type	Interlock protection	Temp comp 0°C protect	DC out Connector	DC out cable	Weight (kg)	Dimensions (mm)	IP rating
ABC700-1220LF		12	14,4	20	20	200	LFP	no	no	SB50	2m 4mm2	2	187 x 123 x 68	67
ABC700-2420LF		24	28,8	20	20	200	LFP	no	no	SB50	2m 4mm2	2	187 x 123 x 68	67
ABC700-4810LF		48	57,6	10	10	100	LFP	no	no	SB50	2m 4mm2	2	187 x 123 x 68	67
ABC1350-2425LF		24	28,8	50	25	250	LFP	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC1350-4825LF		48	57,6	25	25	250	LFP	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC1350-7218LF		72	84	18	18	180	LFP	yes	yes	SB50	2m 6mm2	3,5	281 x 128 x 85	67
ABC2000-2450LF		24	28,8	50	50	500	LFP	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC2000-4835LF		48	57,6	35	35	350	LFP	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC2000-7225LF		72	84	25	25	250	LFP	yes	yes	SB50	3m 10mm2	4,5	282 x 181 x 98	67
ABC3300-4850LF		48	57,6	50	50	500	LFP	yes	yes	SB50	3m 10mm2	6	350 x 188 x 99	67
ABC3300-7235LF		72	84	35	35	350	LFP	yes	yes	SB50	3m 10mm2	6	350 x 188 x 99	67