



samlexamerica®

ACR-300



Automatic Charge Separator

Model
ACR-300
300 Amp

Design Features

- Microprocessor controlled, dual sensing
- Starter battery priority
- Easy to install - does not require changing the existing circuit or the alternator
- Potted, waterproof, sealed unit
- Low standby current
- Automatic detection of 12 or 24 VDC systems
- 300 Amp continuous rated
- Over-voltage protection
- Built-in status LED

2 YEAR LIMITED WARRANTY

MODEL NO.		ACR-300
ELECTRICAL SPECIFICATIONS	OPERATING MODE	12 VDC / 24 VDC (Automatic detection)
	OPERATING VOLTAGE	8 - 35 VDC
	MAXIMUM CURRENT	300 A
	PEAK CURRENT	900 A for 250 milliseconds
	CONSUMPTION OFF	±3.8 mA @ 13.5 V / ±4.0 mA @ 27.0 V
	CONSUMPTION ON	±365 mA @ 13.5 V / ±185 mA @ 27.0 V
	MINIMUM CHARGE TIME	60 seconds
	MINIMUM SIZE OF WIRES FOR BATTERY CONNECTION	AWG #1/0 or 95 mm ² (2 x 50 mm ²)
CONNECTIONS	A1 (Stud & Nut, M10)	Connects to Positive terminal of Starter Battery
	A2 (Stud & Nut, M10)	- Connects to Positive of Auxiliary Battery in normal function - Connects to Positive of Load in "Voltage Dependent Switch" function
	STATUS (6.3 mm / 1/4" Quick Disconnect / FASTON connector)	- When connected to Positive terminal of Starter Battery in "Start Assistance" function, the relay is energized - No connection - normal operation - When connected to battery Negative through switch, the relay is de-energized
	MINUS (6.3 mm / 1/4" Quick Disconnect / FASTON connector)	Connects to Starter Battery Negative
DISPLAY	LED	Will indicate relay energized (ON)
COMPLIANCE	INGRESS PROTECTION	IP66 (Waterproof)
	EMC COMPLIANCE	EMC Directive 2014/30/EU. EN6100-6-3: 2021: Conducted and Radiated Emissions for Residential, Commercial and Light Industrial Environment. 2004/104/EC: Automotive Directive.
ENVIRONMENT	OPERATING TEMPERATURE RANGE	-20 °C to 40 °C (Linearly de-rate to 80 A at 85 °C) -4 °F to 104 °F (Linearly de-rate to 80 A at 185 °F)
DIMENSIONS	(L X W X H), MM	170 x 82 x 65
	(L X W X H), INCHES	6.69 x 3.23 x 2.56
WEIGHT	KG	0.895
	LB	1.97

NOTE: Specifications are subject to change without notice

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