



samlexamerica®

# ACR-160



## Automatic Charge Isolator

Model  
ACR-160  
160 Amp

### Design Features

- Microprocessor controlled, dual sensing
- Starter battery priority
- Easy to install - does not require charging the existing circuit of the alternator
- Potted, waterproof, sealed unit
- Low standby current
- Automatic detection of 12 or 24 VDC systems
- 160 Amp continuous rated, 480 Amp peak (250 msec)
- Monitoring of relay activation by external LED
- Over voltage protection

## 2 YEAR LIMITED WARRANTY

		MODEL NO.	ACR-160
ELECTRICAL SPECIFICATIONS	OPERATING VOLTAGE	12 VDC / 24 VDC (Automatic detection)	
	MAXIMUM CURRENT	160A	
	PEAK CURRENT	480A for 250 milliseconds	
	CONSUMPTION OFF	12V = 1.8mA / 24V = 2.0mA	
	CONSUMPTION ON	12V = 340mA / 24V = 170mA	
	MINIMUM CHARGE TIME	60 seconds	
	FAST OPENING	< 11.8V (12V) / 23.6 (24V) after 4 seconds	
	EXTERNAL FUSE FOR BATTERY CONNECTIONS	200A, 32V	
	MINIMUM SIZE OF WIRES FOR BATTERY CONNECTION	AWG #1/0 or 50 mm <sup>2</sup>	
CONNECTIONS	A1 (Stud & Nut, M8)	Connects to Positive terminal of Starter Battery	
	A2 (Stud & Nut, M8)	<ul style="list-style-type: none"> <li>- Connects to Positive of Auxiliary Battery in normal function</li> <li>- Connects to Positive of Load in "Voltage Dependent Switch" function</li> </ul>	
	STATUS (6.3 mm / 1/4" Quick Disconnect / FASTON connector)	<ul style="list-style-type: none"> <li>- When connected to Positive terminal of Starter Battery in "Start Assistance" function, the relay is energized</li> <li>- No connection - normal operation</li> <li>- When connected to battery Negative through switch, the relay is de-energized</li> </ul>	
	MINUS (6.3 mm / 1/4" Quick Disconnect / FASTON connector)	Connects to Starter Battery Negative	
DISPLAY	LED (6.3 mm / 1/4" Quick Disconnect / FASTON connector)	When connected to external LED, will indicate relay energization	
	EXTERNAL LED (OPTIONAL)	Indicates energization of relay	
COMPLIANCE	INGRESS PROTECTION	IP65 (Dust-proof; Water-proof against hose spray)	
	EMC COMPLIANCE	EN61000-6-2: 2005: Immunity Against Industrial Environment . EN6100-6-3: 2007: 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 80A at 85°C) -4°F to 104°F (Linearly de-rate to 80A at 185°F)	
DIMENSIONS	(L X W X H), MM	106.4 x 73 x 57.2	
	(L X W X H), INCHES	4.2 x 2.9 x 2.3	
WEIGHT	KG	0.46	
	LBS	1.0	

NOTE: Specifications are subject to change without notice

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