

A1 STATUS MINUS \bigcirc LED A2

2 YEAR WARRANTY

Design Features

- Microcontroller based for compact, efficient and smart functioning
- Automatic detection of 12V / 24V battery systems
- 160 Amp continuous rated, 480 Amp (250 msec) peak
- Isolation through relay for negligible voltage drop and higher efficiency
- Easy to install does not require changing of alternator circuit
- Very low self consumption
- Provides priority for charging the starter battery first and then the auxiliary battery

Automatic Charge Isolator

Model ACR-160 160 Amp

- Protects auxiliary battery and connected devices against over voltage
- Monitoring of relay activation by external LED
- Potted, waterproof, sealed unit IP65
- Additional capabilities:
 - Start Assist Function during cranking by momentarily paralleling the two battery for higher cranking Amps
 - Forced Disabling Function of the relay during charging to isolate the starter battery when high power DC loads are being powered from the auxiliary battery
 - As a Voltage Dependent Switch for automatic switching on of load after vehicle has started and starter battery has fully charged

	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 ²
CONNECTIONS	A1 (Stud & Nut, M8)	Connects to Positive terminal of Starter Battery
	A2 (Stud & Nut, M8)	 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
	LED (6.3 mm / 1/4" Quick Disconnect / FASTON connector)	When connected to external LED, will indicate relay energization
DISPLAY	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	106.35 x 73.025 x 57.15
	(L X W X H), INCHES	4.187 x 2.875 x 2.25
WEIGHT	KG	.455
	LBS	1.0

NOTE: Specifications are subject to change without notice

12004-ACR-160-1112

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