

# Automatic Charging Relays

## SI-Series Automatic Charging Relay (Start Isolation)

Automatically manages the charging of two battery banks and isolates batteries during starting to protect sensitive electronics



### Features

- 120 Ampere continuous rating—supports high-output alternators
- LED light indicates when batteries are combined and blinks when the undervoltage or starting isolation feature is engaged
- Side and bottom knockouts for power cable connections
- Clip-on cover protects terminal connections
- 1/4" x .031" male quick connect terminals for ground, optional remote LED (page 80), and starting isolation
- 7/8" (22.22mm) stud length to accept multiple cable terminals
- Start Isolation (SI)—Can be configured for temporary isolation of House loads from Engine circuit during engine cranking to protect sensitive electronics
- 12/24 volt auto ranging voltage input
- Hermetically sealed contacts/vaporproof
- Remote LED output indicates relay state away from ACR (requires optional LED, page 80)
- Senses charging on two battery banks



7610

### Specifications

		12 Volts DC	24 Volts DC
<b>I<sub>300</sub></b>	Intermittent Rating: 5 min.	210 Amps	210 Amps
<b>I<sub>c</sub></b>	Continuous Rating	120 Amps	120 Amps
<b>I<sub>oc</sub> (Combine)</b>	Amperage Operating Current	175mA	115mA
<b>I<sub>oc</sub> (Open)</b>	Amperage Operating Current	15mA	15mA
Maximum Cable Size		1/0 AWG	1/0 AWG
Terminal Stud Size		3/8"-16 (M10)	3/8"-16 (M10)
Maximum Torque		140 in-lbs	140 in-lbs
<b>Relay Contact Position</b>			
	Combine (30 sec.)	13.6 Volts	27.2 Volts
	(2 min.)	13.0 Volts	26.0 Volts
	Open (10 sec.)	12.35 Volts	24.7 Volts
	(30 sec.)	12.75 Volts	25.5 Volts
	Open High	16.0 Volts	30.0 Volts

### Regulatory

- CE Marked
- IP** Meets ISO 8846, UL 1500, and SAE J1171 external ignition protection requirements
- 67** IP67—temporary immersion for 30 minutes

PN	Volts	Weight lb (kg)
7610	12/24	1.26 (0.57)

