

SELECTRONIC CHARGE REGULATOR



- High Performance
- High Efficiency
- High Reliability
- Solid State
- Low Cost

A high performance, low cost companion... to all Selectronic SA22, SA32, and SA42 Sine Wave inverters.

Enhance your system by linking a PWM 60 regulator to your chosen Selectronic inverter AND SAVE in the process.



SELECTRONIC

High efficiency - high performance and naturally,
Selectronic quality and reliability!



SELECTRONIC SYR15 RELAY



A highly versatile Solid State AC Synchronous Relay, the SYR15 can be used to switch a variety of 240v loads or used as a shunt regulator for your wind turbine for example. The current rating of the 'contacts' is 15 amps. For certain applications the SYR15 will exceed the life many times of a comparative mechanical relay.

SELECTRONIC AUSTRALIA
CHANGING THE FACE OF INVERTERS



ACN 063 863 785

SELECTRONIC PWM REGULATOR & SYR15 RELAY FEATURES

SELECTRONIC CHARGE REGULATOR ELECTRICAL SPECIFICATIONS

ELECTRICAL PARAMETER	PWM60 CHARGE REGULATOR	CONDITION
Output Current @ 40 °C Ambient	60 Amps 120 Amps	Max. Continuous Max Surge
Output Current @ 60 °C Ambient	45 Amps 90 Amps	Max Continuous Max Surge
Charge Source Open Circuit Voltage Input Range (Series Regulator)	12-88V DC (maximum 40V differential between charge source open circuit voltage and battery voltage)	Range
Battery Voltage Range (Shunt Regulator)	12-24V DC Battery Bank (maximum 40V battery voltage)	Range
Input Current from Inverter terminal 6	0.02A DC 0.025A DC	Regulator OFF - No Load Regulator ON - Full Load
Switching Topology	Single Ended PWM	
Operating Temperature Range	0 °C - 60 °C	
Conforms to standards	AS 3100 (wiring), C tick	

SELECTRONIC CHARGE REGULATOR MECHANICAL SPECIFICATIONS

Size	195mm wide x 130mm high x 50mm deep	
Weight	1Kg	
Weight packed	1.2Kg	
Input lead length	Not applicable	
Output wiring method	6 way screw terminal strip	
Maximum Output Wire Size	16mm ² per terminal	
Chassis	Power coated zinc steel (Wedgewood Blue)	
DC isolation	None. Note that a single Pole Circuit Breaker should be used. (Not included)	
Warranty	5 year parts and labour (conditions apply)	

SELECTRONIC SYNCHRONOUS RELAY ELECTRICAL SPECIFICATIONS

ELECTRICAL PARAMETER	SYR15 SYNCHRONOUS RELAY	CONDITION
Output Current @ 40 °C Ambient	15 Amps (5 Amps motor running current) 350 Amps	Max. Continuous Max Surge 10ms
Output Current @ 60 °C Ambient	10 Amps (3.5 Amps motor running current) 350 Amps	Max Continuous Max Surge 10ms
Input Current from Inverter Output Terminal	0mA DC 5mA DC	Regulator OFF - No Load Regulator ON - Full Load
Switching Topology	Mains zero crossing, full cycle control	
Operating Temperature Range	0 °C - 60 °C	
Conforms to standards	AS 3100 (wiring), C tick	

SELECTRONIC SYNCHRONOUS RELAY MECHANICAL SPECIFICATIONS

Size	195mm wide x 170mm high x 50mm deep	
Weight	1Kg	
Weight packed	1.2Kg	
Input lead length	2.5me	
Output wiring method	6 way screw terminal strip	
Maximum Output Wire Size	16mm ² per terminal	
Chassis	Power coated zinc steel (Wedgewood Blue)	
AC Isolation	2500V. 10 ¹⁰ ohm Note that a single Pole Circuit Breaker should be used. (Not included)	
Warranty	5 year parts and labour (conditions apply)	

Through a policy of continued development, specifications are subject to change without notice. Copyright © Nov 2000 Selectronic Australia Pty. Ltd.
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WARNING.
All fixed wiring installations must comply with the relevant requirements of your state or national standards. It is imperative that only Registered Electrical Contractors are permitted to install or check any appliance or wiring in the system.

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PWM REGULATOR

The Selectronic SA22, SA32 & SA42 Sine Wave Inverters come to you inclusive of Energy Management MKII. This provides a fully featured monitoring and control system that allows you to keep track of vital system parameters, perform control functions and allow remote communication. Add then a Remote Key Pad and you have at your fingertips all this energy information at a location that is removed from your inverter, such as the kitchen wall. Add a PWM 60 Charge Regulator and all solar, wind or hydro charging of your batteries can be controlled from your inverter by entering the float, boost & equalise voltage via the inverter keypad. The PWM 60 also incorporates soft switching, is therefore gentle on your batteries promoting increased battery life. Protect your valuable batteries from damage with the Selectronic PWM 60 Charge Regulator. Rated at 60 Amps the PWM 60 is reverse polarity protected, simple to use and simple to install. See specifications top left.

SYR15 RELAY

The SYR 15 Solid State Relay is controlled by one of the outputs of the inverter. It may be operated as an electronic relay to replace mechanical relays, especially where loads such as motors which have high inrush currents are being used and degradation of mechanical relay contacts are high. The relay always switches at mains zero crossing, reducing considerably any stress on the inverter especially at motor start. When your system is providing surplus energy from perhaps a wind turbine or solar array the SYR15 can be used as a shunt regulator to draw current from the batteries via an AC load through the inverter AC output thus limiting the battery bank from being overcharged. The inverter will control the SYR15 relay automatically. This versatile product can be used on all Selectronic current or superseded Sine Wave Inverters. See specifications bottom left.

Available from: