Internet Connectivity without any fuss using Imark Site Explorer

The Imark Site Explorer easily enables changes to installation settings, or just the ability to monitor your system performance using your standard web browser. Only one SRX regulator with the LCD Display needs to be installed to monitor and interrogate up to eight regulators when connected correctly. Any SR and SRX model in a system can be interrogated from one LCD display, or by direct connection to the LCD using a PC or laptop computer. With Internet access on site, Imark Site Explorer lets you do the lot (monitor, download data, or change settings) from your desk, smart phone or tablet, anywhere in the world.

IMARK SITE EXPLORER

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Monitor your system operation from anywhere using the Internet, or directly using a laptop, or PC. Regulator performance is updated at 15 second

intervals thus providing up to date performance data. Data can be down-loaded on a daily, weekly, monthly, annual, or lifetime basis directly into MS Excel for easy graphical monitoring



The Settings screen displays the settings for up to eight regulators in columns enabling easy settings comparisons or changes.

can be viewed and acted upon immediately

Mimic Screen enables you to see and assist with field changes as they happen without leaving your desk

Solar Regulator Specifications

•	· · · ·					
MODELS	SR20	SR40	SR60	SRX20	SRX40	SRX60
IMARK Stock #	804861	804862	804863	804865	804866	804867
Battery Voltage (nominal)	12Vdc, 24Vdc, or 48Vdc	Automatically sele	cted by regulator or	Manually set		
PV Input Voltage (Maximum)	140 Voc					
Renewable Input Power	20 Amps	40 Amps	60 Amps	20 Amps	40 Amps	60 Amps
Input Power (maximum)	1.0kW	2.0kW	3.0kW	1.0kW	2.0kW	3.0kW
Maximum Load Current	20 Amps	40 Amps	60 Amps	20 Amps	40 Amps	60 Amps
Standby Power Draw	50mW, 60mW, 70mW,	or 80 mW (deper	nding on Regulator (On or Off, & LCD C	n or Off)	
Communication Ports	CANBus			CANBus, Etherne	et, USB, SD Card	
Renewable Input	Up to Rated Current					
Regulation Method	Multi-Phase Pulse Width	Modulation with N	1aximum Power Poir	t Tracking (MPPT)		
Efficiency	Greater than 95% when	battery charging				
Charge Setpoints	Bulk, Absorption, Equalis	e, and Float				
Charge Setpoint Adjustment	Set by DIP Switches on	PCB		Set from LCD du	ring programming	
Battery Conditioning	Absorption voltage (daily	for set time), and	'or Equalise (for set	time & cycle), follow	ved by Float Charg	jing
Voltage Setpoint Range	2.225V to 2.600V per ce	ell				
Temperature Compensation	None, or External Senso	r, set by link, 1 - 10)mV/°C/cell			
Voltage Protection	Maximum PV Input Volta	ge 140Vdc				
Over Temperature Protection	Over Temperature senso	r reduces the outp	ut power from 70°C	to zero at 90°C he	atsink temperature	:
Over Voltage Protection	Independent Battery Ove	er Voltage Protectio	on circuit			
Programmable Conditions (Days, Time, Temperature, & Battery SOC)	Load Output Load Relea	se ONLY		Load Output Load Load Output Load Remote Out Sign	d Timer,	
Unit Size mm excluding ProtrusioTns	175 (H) x 160 (W) x 110 (D) mm	235 (H) x 160 (W) x 110 (D) mm	235 (H) x 160 (W) x 140 (D) mm	175 (H) x 160 (W) x 110 (D) mm	235 (H) x 160 (W) x 110 (D) mm	235 (H) x 160 (W) x 140 (D) mm
Unit Weight Kgs	2.45 Kgs	3.25 Kgs	5.4 Kgs	2.5 Kgs	3.3 Kgs	5.45 Kgs
Shipping Size	240 x 180 x 130mm	300 x 180 x 130mm	300 x 180 x 150 mm	240 x 180 x 130mm	300 x 180 x 130mm	300 x 180 x 150 mm
Shipping Weight Kgs	3.0 Kgs	4.0 Kgs	6.0 Kgs	3.0 Kgs	4.0 Kgs	6.0 Kgs
Operational Display Method	6 x LED's			4x20 Alphanume	ric Back-lit STN LO	CD, and 6 LED's
Warning Annunciation	LED colours			Buzzer, LCD, & L	ED colours	
Inclusions	Regulator, Manual (on C	D), Battery Temper	ature Sensor, & Mou	inting Screws		
Design & Construction	Australian designed and	manufactured				
Standards	AS/NZS CISPR11:2004	4				
OPTIONS						
SD Card	Not Available			1GB or 2 GB		
Redundancy C/O Module	Works with any model co	ombination				

3RU Rack Mounted Unit Specifications

Imark Stock #		
Nominal Cabinet Size	19" 3RU Nominal 483mm (W) x 132mm (H	H) x 290mm (D
Weight	Up to 12 KG (261/2 Lbs)	depending on I
Shipping Size & Weight	575(L) x 540(W) x 180(l	H) mm up to
Others	Other Specifications are	as described a

Remote LCD Unit Specifications

Imark Stock #	804870
Size	160mm (W) x 130mm (H) x 55mm (D
Weight	1.3 Kgs (2.9 Lbs)
Shipping Dimensions	180 x 170 x 80 mm 1.4 Kgs



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		1GB or 2 GB					
on							
				804869			
)mm (D) (or 19" (W) x 53/16" (H	-1) v 111/2 " (D) (ove	luding protrucions	,			
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ribed abc							
mm (D) or	19" (W) x 53/16" (H)) x 2¼ " (D) (exclud	ding protrusions)				
	Available from:						
	Available from:						
	Imark is a wholly Austro	lian owned company	v and we are proud	to design and			
	Imark is a wholly Australian owned company and we are proud to design and manufacture our own products in Australia. This gives us the flexibility to customise						

r products to suit the individual needs of the end user. Accordingly, we back our

roducts with great technical support and a wide range of spare parts.



MPPT Solar Regulators FOR YOUR OFF-GRID INSTALLATION

The complete family of solar regulators perfect for any stand-alone remote solar system at 12, 24, or 48Vdc and with current requirements of 20, 40, & 60 Amps.

Remote Area Systems



Everything you need without the fuss

- ► The IMARK SR series entry-level models form part of the complete range of Rugged Reliable Solar Regulators
- Simplicity while maintaining all the performance features needed to efficiently manage your solar system
- The same heavy duty heatsink, and power components as the full featured IMARK SRX models, ensures maximum solar performance and equipment reliability.



SR Series Features:

- MPPT maximises the solar energy harvest especially when the battery SOC is low, or if using solar panels with less than ideal voltages
- Multi-phase PWM reduces noise interference
- Large Heatsink & rugged construction ensure cool running
- Easy mounting arrangement
- Plug & Socket connectors make installation a breeze
- 20 Amp, 40 Amp, & 60 Amp models
- Automatic Battery Voltage selection from 12, 24, & 48 Volts dc nominal
- High Efficiency better than 95%
- CANBus communications allows system expansion up to 8 units to form a larger integrated system with any 20, 40, or 60 Amp combination on an as required basis
- Load Output can be managed with conditions, wher programmed from a SRX Series LCD model

- Battery Temperature Sensor included
- Ambient Temperature Sensor optional
- Extensive protection features
- Remote Internet access available for up to 8 units when installed with one Internal LCD or a Remote LCD Unit
- LED's provide simple status and diagnostics information at a glance
- DIP switches permit easy on-site programming
- All external connections in one convenient location
- All connections are made with Plugs & Sockets and can be pre-wired enabling easy fast trouble free installation in those tight locations
- All connectors are unique to prevent miss-connection and/
- A Digital Output for control of fans, lights, airconditioning, when programmed from a SRX Series <u>LCD model</u>.



SRX Series Features:

setting change ability.

All the bells

and whistles

The SRX series "Top of the Range" versions

are packed with useful features and can be programmed to satisfy almost any customer

requirement. They are complete with the Imark

Site Explorer enabling Internet access capability

for performance monitoring and providing easy

- The SRX Series include all the features of the SR models, less the DIP Switches, but with the LCD Display, and much more
- CANBus communications allows system expansion up to 8 units to form a larger integrated system with any 20, 40, or 60 Amp combination on a needs basis
- Load Output can be managed with conditions, such as Time, Battery SOC, or Temperature to control Lights, Pumps, or other equipment
- Easy Set-point Adjustments using the Keys and LCD Display
- SR & SRX series can be "mixed & matched" to increase system size
- One SRX regulator can interact with 7 SR Series Regulators in the system to reduce system costs.
- Digital Output Terminal to control external devices which can be managed by Battery SOC, Time of Day, and/or Temperature conditions
- Shutdown Alarm output terminal for telemetry applications







MPPT Solar Regulators I M A R K



- Lifetime performance data can be stored on the optional SD Card or USB Memory stick, and can be downloaded directly to a Laptop or PC via the Internet
- 4 x 20 Alphanumeric back-lit STN LCD display provides better visibility in bright light conditions, and at night, while reducing power consumption
- 6 tactile key switches with audio & visual indication to navigate menus or change settings
- Screen presentations show instantaneous, daily, or lifetime information on PV Input, PV Input time, Load Output, Load Output time, battery input, battery output, output signal terminal run time, etc
- Direct computer connection using your Web Browser via the Ethernet port.





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Options to satisfy any

installation requirements

2 3 4 5 6 7 8 9 10 11 12

CREEKEEEEEE

BAT LOAD

- All external connections in one convenient location
- All connections made using plugs & sockets making installations and/or change-outs easy
- Ethernet port for use at sites with Internet capability and can be used with an external wireless Modem for remote interrogation, for data downloading, or for making setting changes
- CANBus connections for the Remote LCD Display and for connection to multiple SR or SRX Regulators.

- SRU Rack Mounting configurations are available using any model combination
- Rack mounting models include the same features as the wall mounting models, and can be installed as a system with up to 8 regulators
- Cooling fans included to enhance cooling when installed in congested rack installations
- Can be configured for redundancy using an Imark Change-Over Relay Module.
- Optional Remote Control Unit connects directly to regulators via CANBus
- Can be up to 100 Metres from SR/SRX Regulators
- External power supply is NOT required for remote extensions up to 100 metres
- Includes all features and functions described for the internal LCD display
- Ideal for monitoring system performance from the office or home
- SD Card & USB Ports
- Ethernet port for access from anywhere using your web browser and the Internet
- Distances of up to 1 Km can be achieved by special order using RS485 communications.