

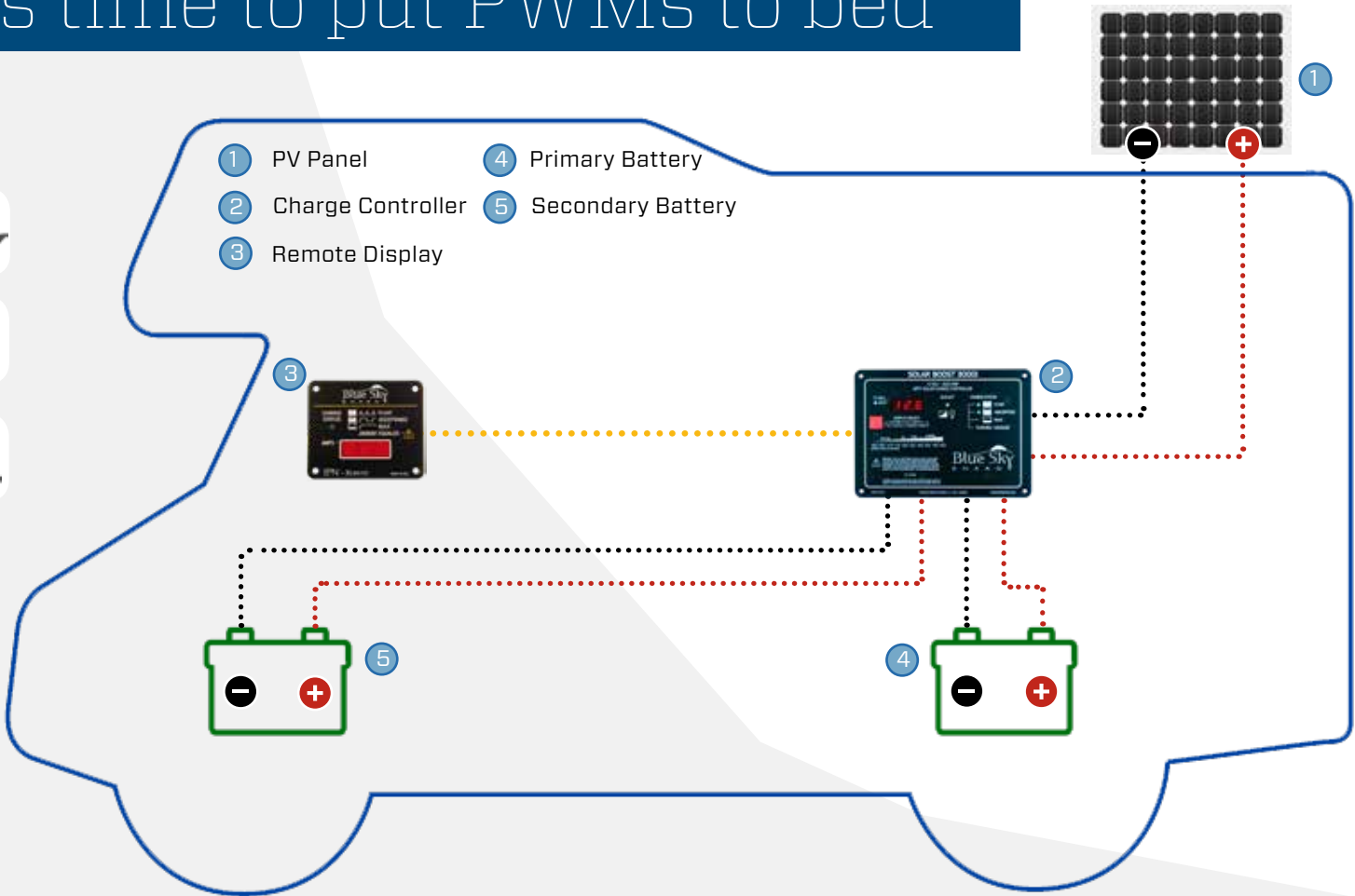
Solar power
that never sets.



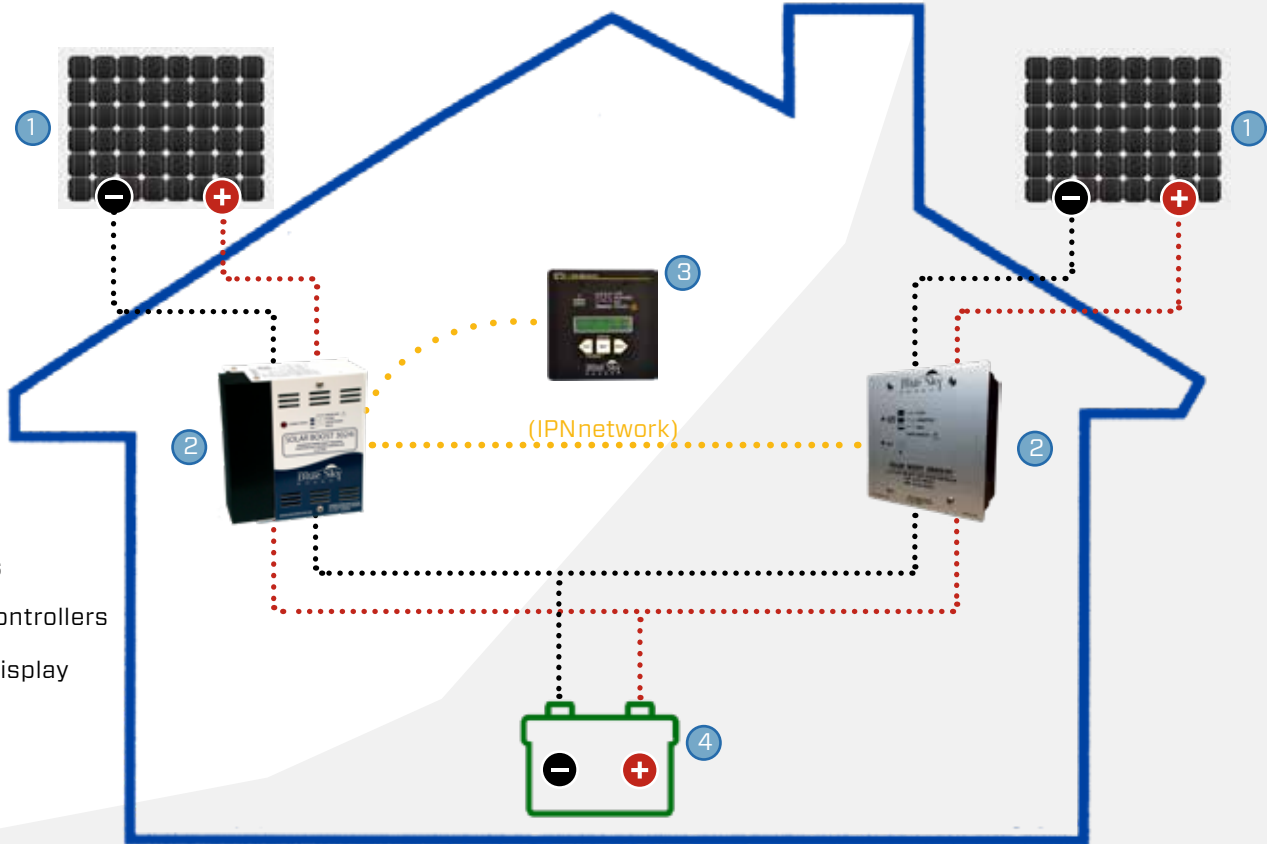
MPPT SOLAR CONTROLLERS

It's time to put PWMs to bed

- 1 PV Panel
- 2 Charge Controller
- 3 Remote Display
- 4 Primary Battery
- 5 Secondary Battery



MPPT technology wherever you need it!



SC30(LVD)

30A @ 12V 450W

BATTERY CHEMISTRIES AVAILABLE:

Lead-Acid (AGM / Sealed / Flooded / Gel)

PWM for entry level market.

The SC30/SC30LVD is our most affordable and basic PWM charge controller for a wide range of applications. Its builtin LED display shows battery voltage, solar charge current, total solar charge amhours and can be used to program charge settings. The SC30LVD version provides a programmable signal output to manage DC load with low voltage disconnect or our duskto dawn control for PV street lighting. A perfect entrylevel controller!

FEATURES:

- 99% peak efficiency
- PWM technology
- Multi-stage charging battery
- LED display for full programming
- PV array overload protection
- Reverse battery and panel protection
- Load Output signal 50mA (SC30-LVD)

Great For:

- PV street lighting
- Low-cost application



SPECIFICATIONS:

Max Panel Power:	450W*
Rated Battery Current:	30A
Nominal Battery Voltage:	12V
Recom. Max Panel Voc at STC:	24V
Self Consumption:	0.17W
Operating Temperature:	-40°C + 45°C
Environmental Protection:	IP10
Dimensions:	(4.6-6.35-1.18)"
Weight:	0.45lb (205g)
Warranty:	5 years

(*) 36-cell PV panel. Please consult the datasheet.

BATTERY CHEMISTRIES AVAILABLE:

Lead-Acid (AGM / Sealed / Flooded / Gel)

SB1524iX

15A @ 12V @24V 400W

● Affordable and Great MPPT charge controller.

Flexible, reliable, and ready to work! The SB1524iX, featuring our patented MPPT technology, with a second battery output and IPN connector for remote display, is ideal for RVs and Marine applications. The SB1524iX can manage a 20A at 12V (or 15A at 24V) load output for small offgrid electrification applications. When programmed with an IPN ProRemote or UCM, it is also ideal for PV street lighting with its duskto dawn load control. It can also charge Lithium batteries when programmed with the IPN Pro Remote. Its IPN Network interface can communicate with other Blue Sky Energy charge controllers as a single charging system, allowing increased flexibility and optimization in system design.

SPECIFICATIONS:

Max Panel Power:	270W*, 400W**
Rated Battery Current:	20A*, 15A**
Nominal Battery Voltage:	12V, 24V
Recom. Max Panel Voc at STC:	45.6V
Self Consumption:	0.20W
Operating Temperature:	-40°C + 50°C
Environmental Protection:	IP20
Dimensions:	(5.3, 5.3, 2.75)"
Weight:	1.15lb (525g)
Warranty:	5 years

Great For:

- Rural electrification
- Water pump
- RV's
- Work in network



FEATURES:

- 97% peak efficiency
- MPPT technology
- Multi-stage charging battery
- LED indicators
- PV array overload protection
- Reverse battery and panel protection
- Load Output or second battery charge
- IPN for network and remote display
- Lithium compatible



(*) 36-cell PV panel and 12V battery voltage.

(**) 72-cell PV panel and 24V battery voltage.

Please consult the datasheet for 60-cell PV panel.

SB2512i(X)-HV

25A @ 12V 340W

BATTERY CHEMISTRIES AVAILABLE:

Lead-Acid (AGM / Sealed / Flooded / Gel)

MPPT for any application!

Meet the SB2512iHV, our most affordable MPPT controller option available for offgrid electrification or use with offgrid inverters (for AC load). The SB2512iXHV's additional features, such as an auxiliary output for charging a second battery, make it suitable for many applications, including RVs and Marine. The SB2512iXHV can manage a 25A load output for small offgrid electrification applications. When programmed with an IPN Pro Remote or UCM, it will provide dusk-to-dawn load control for PV street lighting. It is compatible with FLA, AGM, and Gel batteries, and Lithium batteries when programmed by an IPN ProRemote. Its IPN Network interface can communicate with other Blue Sky Energy charge controllers as a single charging system, allowing increased flexibility and optimization in system design.

FEATURES:

- 96% peak efficiency
- MPPT technology
- Multi-stage charging battery
- LED indicators
- PV array overload protection
- Reverse battery and panel protection
- Load Output or second battery charge (only SB2512iX-HV)
- IPN for network and remote display
- Lithium compatible

Great For:

- RV's
- Rural electrification
- Work in network



SPECIFICATIONS:

Max Panel Power:	340W*
Rated Battery Current:	25A*
Nominal Battery Voltage:	12V
Recom. Max Panel Voc at STC:	40V
Self Consumption:	0.30W
Operating Temperature:	-40°C + 45°C
Environmental Protection:	IP20
Dimensions:	(5.3, 5.3, 2.5)"
Weight (iX-HV):	0.87lb (395g)
Warranty:	5 years

(*) 36-cell PV panel. Please consult the datasheet for 60-cell PV panel.

BATTERY CHEMISTRIES AVAILABLE:

Lead-Acid (AGM / Sealed / Flooded / Gel)

SB3000i

30A @ 12V 400W

Flexible and ready to work.

Compact, reliable, and fully programmable: the SB3000i is ready to work! The SB3000i, featuring our patented MPPT technology, is ideal for RVs and Marine applications with a second battery output and IPN connection for remote display and networking. This controller can be programmed from its onboard display or in conjunction with an IPN ProRemote. This gives maximum flexibility when operating PV street lighting or using for smallscale offgrid electrification. Compatible with FLA, AGM, Gel, and Lithium batteries. Its IPN Network interface can communicate with other Blue Sky Energy charge controllers as a single charging system, allowing increased flexibility and optimization in system design.

SPECIFICATIONS:

Max Panel Power:	400W*
Rated Battery Current:	30A*
Nominal Battery Voltage:	12V
Recom. Max Panel Voc at STC:	40V
Self Consumption:	0.36W
Operating Temperature:	-40°C + 45°C
Environmental Protection:	IP20
Dimensions:	(6.35, 4.6, 2.2)"
Weight:	1.08lb (493g)
Warranty:	5 years

Great For:

- PV street lighting
- RV's
- Marine
- Billboard



FEATURES:

- 97% peak efficiency
- MPPT technology
- Multi-stage charging battery
- LED display for full programming
- PV array overload protection
- Reverse battery and panel protection
- Load Output or second battery charge
- IPN for network (master only) and remote display
- Lithium compatible

(*) 36-cell PV panel. Please consult the datasheet for 60-cell PV panel.



SB3024(D)iL

30A @ 12V @24V 800W

BATTERY CHEMISTRIES AVAILABLE:

Lead-Acid (AGM / Sealed / Flooded / Gel)

The big boy MPPT!

Great for midsized systems, the SB3024 charge controller family, featuring our patented MPPT technology, handles up to 800W of PV power at 24V. This controller is ideal for RVs and Marine applications with its auxiliary output for charging a second battery, and can utilize a remote display with its IPN connectivity. The SB3024iL or DiL will manage up to a 20A load output for offgrid electrification or telecommunication systems. When programmed with the IPN Pro Remote or UCM, it can be used for PV street lighting, utilizing its smart dusk-to-dawn load control feature. Its IPN Network interface can communicate with other Blue Sky Energy charge controllers as a single charging system, allowing increased flexibility and optimization in system design. **OPTIONAL:** The DUO Option upgrade allows a SB3024(D)iL-DUO to provide PWM charge control for hydroelectric, wind or similar DC generators that require diversion type charge control while at the same time providing MPPT charge control for the main PV system.

FEATURES:

- 97% peak efficiency
- MPPT technology
- Multi-stage charging battery
- LED indicators
- LED display (only SB3024DiL)
- PV array overload protection
- Reverse battery and panel protection
- Load Output or second battery charge
- IPN for network and remote display
- Lithium compatible

Great For:

- Telecommunication
- Rural Electrification
- Water pump
- RV's
- Work in network



SPECIFICATIONS:

Max Panel Power:	540W*, 800W**
Rated Battery Current:	40A*, 30A**
Nominal Battery Voltage:	12V, 24V
Recom. Max Panel Voc at STC:	45.6V
Self Consumption:	0.35W
Operating Temperature:	-40°C + 40°C
Environmental Protection:	IP20
Dimensions:	(6.8, 6.6, 3.38)"
Weight (DiL):	3.95lb (1.8Kg)
Warranty:	5 years

(*) 36-cell PV panel and 12V battery voltage.

(**) 72-cell PV panel and 24V battery voltage.

Please consult the datasheet for 60-cell PV panel.



Put your remote display where you need!

IPN Remote display provides basic monitoring for IPN compatible charge controllers from Blue Sky Energy. Monitor battery voltage, output current, and charge control system status for up to 8 charge controllers on a single IPN network. The bright, crisp LCD screen reports battery voltage for each controller or across the whole system and provides excellent readability in all lighting conditions. Monitor charge status with simple and intuitive LED indicator. Multiple IPN Remote displays can be used with same system and along with an IPN ProRemote.

SPECIFICATIONS:

Display:	3 Digit • 0.30"
Communication:	4-pin cable
Self Consumption:	0.15W
Operating Temperature:	-40°C + 40°C
Environmental Protection:	IP00
Dimensions:	(2.9, 2.45, 0.9)"
Weight:	0.017lb (42g)
Warranty:	5 years



FEATURES:

- Bright LCD display
- Monitor up to 8 controllers
- Monitoring data for single controller or total system data
- IPN compatibility with SB1524iX, SB2512iX-HV, SB3024iL(DiL) in IPN network, and SB3000i (master only)

Program your controllers the way you want!

IPN ProRemote (S) combines full-featured monitoring for both your charge controllers and your battery system with a bright, easy to use LCD display. Peace of mind comes from accurate information regarding your system battery life, which accounts for many factors including charge/discharge current, the type and size of your battery, temperature, and how the battery was brought to full charge. And a larger system is no problem, as each IPN ProRemote can monitor up to eight (8) charge controllers on a single IPN network. Want to hook up a new panel or battery type? Change your system settings quickly and easily directly through the IPN ProRemote display. Users can change a wide variety of settings, including voltage thresholds, auxiliary outputs, or duskto dawn lighting control.

FEATURES:

- Bright LCD display
- Three buttons for setting
- Programming Load Output of charge controller
- Control up to 8 controllers
- Monitoring data for single controller or total system data
- IPN compatibility with SB1524iX, SB2512i(X)-HV, SB3024iL(D)iL in network, and SB3000i (master only)



SPECIFICATIONS:

Communication	4-pin cable
Display:	2-Line 16-Character Backlit Display
Self Consumption:	0.25W
Operating Temperature:	-40°C + 40°C
Environmental Protection:	IP00
Dimensions:	(4.43, 4.43, 1.4)"
Weight:	0.35lb (160g)
Warranty:	5 years

● Monitor your system anywhere!

The Universal Communications Module (UCM) provides a full-featured communications gateway between your Blue Sky Energy IPN Network and the web. If you have a single IPN compatible charge controller, or are operating a full, eight controller network, the UCM helps you monitor your system from anywhere. The UCM provides interfaces for RS485 and TCP/IP Ethernet communication based on Modbus protocol. A built-in HTTP web server allows users to view data and set system parameters via their browser from wherever they are online, without a subscription. Keep track of your system performance with 128 days of datalogging over key performance parameters. Download the data in Excel format or take the UCM with you for download and analysis.

SPECIFICATIONS:

Communication OUT:	Ethernet TCP/IP
Communication IN:	Modbus via RS485 4-pin cable
Self Consumption:	0.9W
Operating Temperature:	-40°C + 50°C
Environmental Protection:	IP30
Dimensions:	(6.0, 3.6, 1.6)"
Weight:	0.39lb (178g)
Warranty:	5 years



FEATURES:

- HTTP web site for data view, parameter setup and data file download
- Periodic HTTP data upload
- 128 days datalogging available as downloadable Excel file
- Compatibility with Blue Sky Charge controllers, IPN network, and IPN remote display

Power + Reliability + Efficiency. Play it safe!

	SC30(-LVD)	SB1524iX		SB2512i(X)-HV	SB3000i	SB3024(D)iL	
Nominal Battery Voltage:	12V	12V	24V	12V	12V	12V	24V
Max Panel Power:	450W*	270W*	400W**	340W*	400W*	540W*	800W**
Rated Battery Current:	30A	20A*	15A	25A*	30A*	40A*	30A
Recommended Max Panel Voc at STC:	24V	45.6V		40V	40V	45.6VV	
Peak Efficiency:	99%	97%		96%	97%	97%	
Technology:	PWM	MPPT		MPPT	MPPT	MPPT	
Operating Temperature:	-40°C - 45°C	-40°C - 50°C		-40°C - 45°C	-40°C - 45°C	-40°C - 40°C	
IPN Network - Data Output:	-	Yes		only iX-HV	Yes	Yes	
Load Output:	only SC30-LVD	Yes		only iX-HV	Yes	Yes	
Dimensions:	4.6x6.35x1.18"	5.3x5.3x2.75"		5.3x5.3x2.5"	6.35x4.6x2.2"	6.86x6.6x3.38"	
Enviromental Protection:	IP10	IP20		IP20	IP20	IP20	
Warranty:	5 Years	5 Years		5 Years	5 Years	5 Years	

SPECIFICATIONS SUBJECT TO CHANGE.

(*) 36-CELL PV PANEL. (**) 72-CELL PV PANEL. PLEASE CONSULT THE DATASHEETS FOR 60-CELL PV PANEL.



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