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PRODUCT CATALOG

FALL 2011

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COMPANY PROFILE

Shoals Technologies Group is a leading manufacturer of balance of systems solutions. Through innovation and diversification Shoals has grown exponentially since its founding in 1996. Shoals maintains a diverse portfolio of PV balance of systems products, including combiner/re-combiner boxes, master fuse boxes, custom harnessing solutions, junction boxes, PV wire, in-line fuses, racking and PV monitoring solutions.

CERTIFICATIONS

- TUV certified
- UL Listed: 508A, 1703, 1741
- ISO 9001:2008 certified

QUICK FACTS

- STG currently produces over 1.5 million assemblies per week, offering our clients the expertise of distinguished design, and the flexibility of full, semi, and manual production modes.
- Shoals' state of the art facilities currently have the capacity to output over 12 MW per day.
- STG currently holds over 68 percent of the North American balance of systems market and a significant percentage internationally with customers in Canada, Germany, China, Spain, and India.

STANDARDS FOR EXCELLENCE

Shoals Technologies Group maintains the highest standards for excellence. It is this standard that has and continues to help Shoals establish relationships with many of the top integrators and project developers in the solar industry. With solutions second to none in the marketplace, Shoals has had the privilege to be part of some of the largest private and government PV projects to date.

HIGH CURRENT COMBINER BOXES

UL APPROVED COMBINER BOXES WITH BUILT-IN PROTECTION IN THE EVENT OF ABNORMALLY HIGH CURRENT.

Features

Finger-safe fuse holders
Reinforced, plated busbars
Lockable enclosures
Conforms to UL1741
Non-conductive NEMA 4X enclosure
5-year warranty standard on all models
600VDC UL Listed
Available in Metal or Fiberglass
Customizable to meet installation requirements
Available with SNAPShot™ Wireless Monitoring

Technical Information	STG.CBRH.3	STG.CBRH.6	STG.CBRH.12
Voltage Rating (VDC)	600	600	600
Maximum DC Current (A)	90	132	240
Maximum Continuous Current (A)	57.7	84.5	154
Maximum Voltage (VDC)	600	600	600
Positive Output Wire Size (AWG)	14-2/0	6-250MCM	6-300MCM
Negative Output Wire Size (AWG)	14-2/0	6-300MCM	6-300MCM
Input Wire Size (AWG)	6-14	6-14	6-14
Overall Dimensions	8” x 8” x 4”	8” x 10” x 4”	12” x 12” x 4”
Enclosure Rating	NEMA 4X	NEMA 4X	NEMA 4X
Number of Fuse Poles	3	6	12
Maximum Input Fuse Rating (A)	30	30	20
Operating Temperature (C˚)	-40 to 50	-40 to 50	-40 to 50

COMMERCIAL COMBINER BOXES

PROVIDING THE IDEAL LOW COST, HIGH QUALITY SOLUTION FOR COMMERCIAL PHOTOVOLTAIC INSTALLATIONS.

c UL us LISTED

Features

Finger-safe fuse holders
Reinforced, plated busbars
Lockable enclosures
Conforms to UL1741
Non-conductive NEMA 4X enclosure
5-year warranty standard on all models
Available in Metal or Fiberglass
Customizable to meet installation requirements
Available with SNAPShot™ Wireless Monitoring

Technical Information

	STG.CBC.12	STG.CBC.24	STG.CBC.36
Voltage Rating (VDC)	600	600	600
Maximum DC Current (A)	240	420	360
Max. Input Current Per String (A)	20	17.5	10
Max. Input Short Circuit Current Per String (A)	12.8	11.2	6.4
Max. Positive Input Wire Size (AWG)	14-6	14-6	14-6
Max. Negative Input Wire Size (AWG)	14-4	14-4	14-4
Output Wire Size (AWG)	6-350MCM	6-350MCM	6-350MCM
Overall Dimensions	16” x 20” x 8”	30” x 24” x 10”	30” x 36” x 8”
Enclosure Rating	NEMA 4X	NEMA 4X	NEMA 4X
Number of Fuse Poles	12	24	36
Maximum Input Fuse Rating (A)	30	30	30
Operating Temperature (C˚)	-40 to 50	-40 to 50	-40 to 50

UTILITY-SCALE COMBINER BOXES

USED IN MANY OF THE WORLD'S LARGEST PV INSTALLATIONS, AND PROVIDE RELIABILITY SECOND TO NONE.

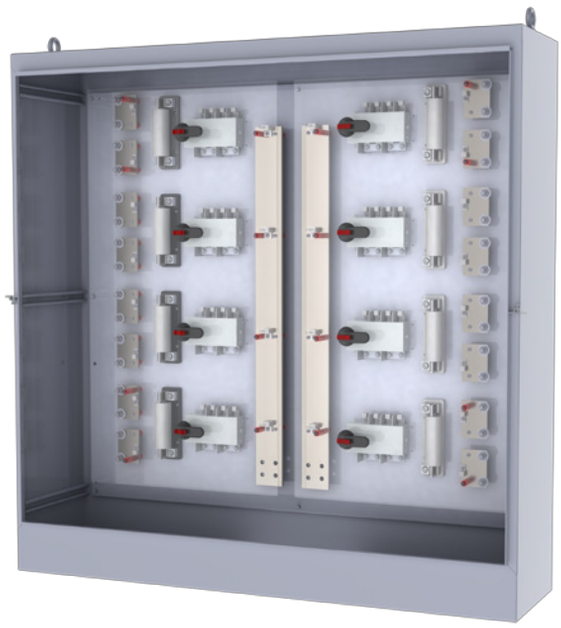
Features

Finger-safe fuse holders
Reinforced, plated busbars
Lockable enclosures
Lexan® arc shields
Conforms to UL1741
Non-conductive NEMA 4X enclosure
5-year warranty standard on all models
DC Disconnects (Optional)
Available in Metal or Fiberglass
Customizable to meet installation requirements
Available with SNAPShot™ Wireless Monitoring

Technical Information	STG.CBU.24	STG.CBU.36	STG.CBU.48
Voltage Rating (VDC)	1000	1000	1000
Maximum DC Current (A)	720	720	720
Maximum Continuous Current (A)	576	576	576
Max. Positive Input Wire Size (AWG)	14-6	14-6	14-6
Max. Negative Input Wire Size (AWG)	14-6	14-6	14-6
Output Wire Size (AWG)	2-600MCM	2-600MCM	2-600MCM
Overall Dimensions	30" x 36" x 8"	30" x 36" x 8"	30" x 36" x 8"
Enclosure Rating	NEMA 4X	NEMA 4X	NEMA 4X
Number of Fuse Poles	24	36	48
Max Input Fuse Rating (A)	30	20	15
Operating Temperature (C°)	-40 to 50	-40 to 50	-40 to 50

MASTER FUSE BOXES

COMBINES THE OUTPUTS OF MULTIPLE STRING COMBINERS INTO A SINGLE OUTPUT GOING TO THE INVERTER. APPLICABLE TO LARGE SOLAR ARRAY PROJECTS WHERE MANY COMBINER BOXES ARE REQUIRED.



Features

Finger-safe fuse holders
Reinforced, plated busbars
Lockable enclosures
Conforms to UL1741
NEMA 3R enclosure
5-year warranty standard on all models
Positive and Negative DC Disconnects
Customizable to meet installation requirements

Technical Information

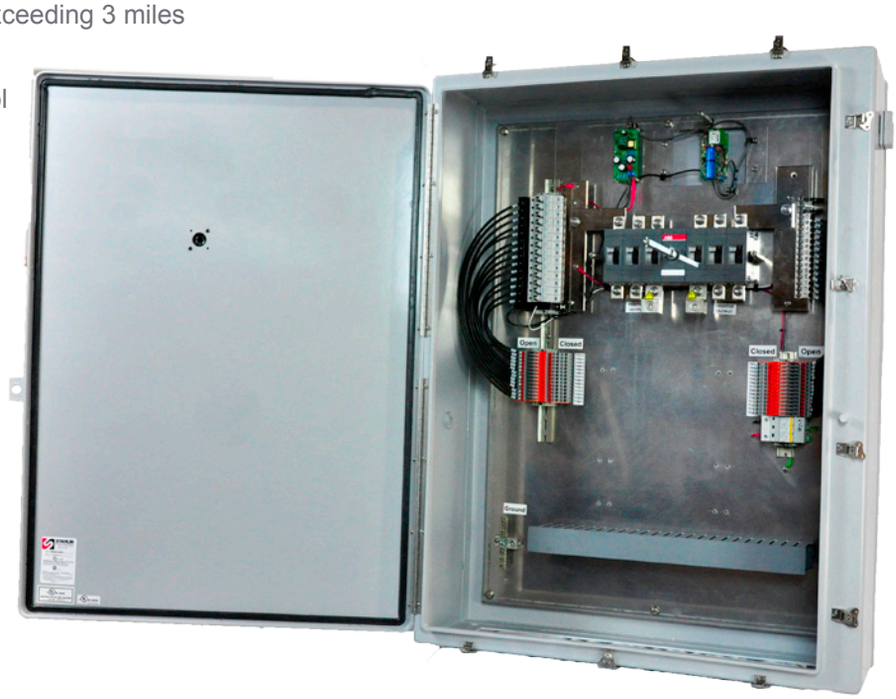
	STG.MFB.600.8	STG.MFB.600.7	STG.MFB.600.6
Voltage Rating (VDC)	600	600	600
Maximum Output DC Current (A)	1600	1600	1600
Max. Input Current Per Pole (A)	200	200	200
Max. Positive Input Wire Size (AWG)	750MCM	750MCM	750MCM
Max. Negative Input Wire Size (AWG)	750MCM	750MCM	750MCM
Output Wire Size (AWG)	2000MCM	2000MCM	2000MCM
Overall Dimensions	72” x 72” x 18”	72” x 72” x 18”	72” x 72” x 18”
Enclosure Rating	NEMA 3R	NEMA 3R	NEMA 3R
Number of Fuse Poles	8	7	6
Max Input Fuse Rating (A)	200	200	200
Operating Temperature (C˚)	-40 to 50	-40 to 50	-40 to 50

SMART COMBINER BOXES WITH SNAPshot wireless monitoring

BUILT UPON BATTLEFIELD PROVEN, MILITARY GRADE TECHNOLOGY, SNAPSHOT™ IS BASED ON A LOW POWER, HIGH PERFORMANCE, SECURE MESH NETWORK THAT CAN RECOVER FROM ANY ISSUES, LARGE OR SMALL, ENCOUNTERED IN THE FIELD.

Features

600V or 1000V capability
Up to 25 amps per string
Powered from DC busbar
Supports external plug-ins for additional features
No battery change required
Mesh protocol with maximum ranges exceeding 3 miles
FCC certified on all 16 channels
IEEE 802.15.4 low-power mesh protocol
AES-128 encryption
Adjustable polling frequency
Instant-on, self-detecting & self-healing
5-year warranty standard on all models



Measured Variables

Temperature (C˚)
Current (A)
Voltage (VDC)

Accessories

Modbus Interface
External glass temperature sensor
Custom SCADA adapters

Current Accuracy

30A Module - (+/- 1%)
15A Module - (+/- 1%)
10A Module - (+/- 1%)
3A Module - (+/- 1%)

Current Range

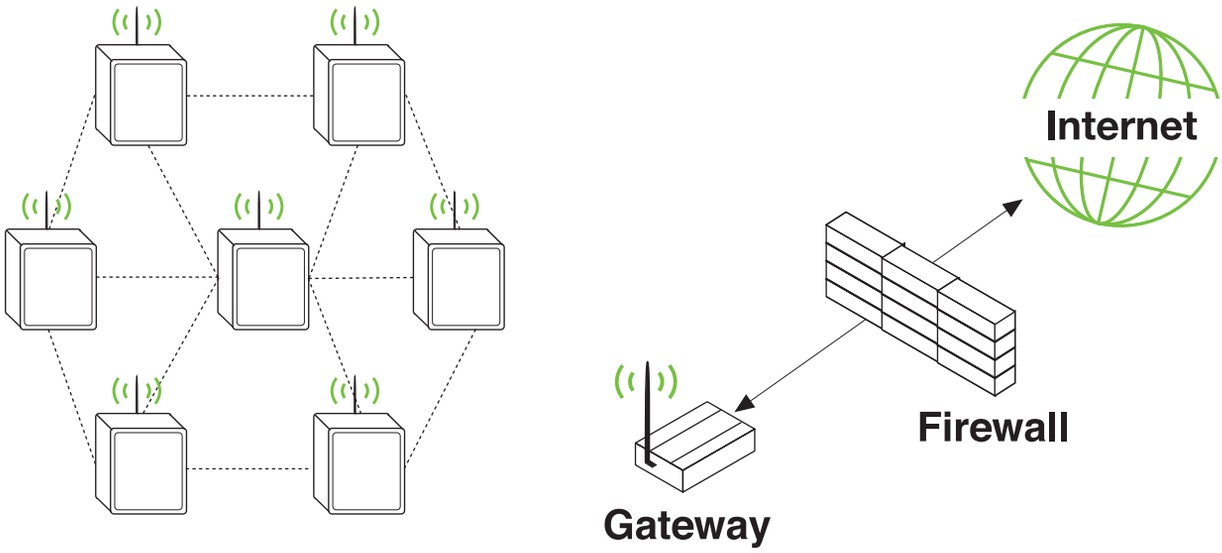
30A Module - (2A - 30A)
15A Module - (1A - 15A)
10A Module - (0A - 10A)
3A Module - (0A - 2.5A)

Voltage & Temp Accuracy

1V - 1020V - (+/- 1%)
-40˚C to 90˚C - (+/- 2˚C)

Self-Detecting and Self-Healing Wireless Network

In the SNAPShot™ wireless network there are no single points of failure, any node can talk directly to any other node that is in range, and any node can talk indirectly to any other node via intermediate nodes. These routes between nodes do not have to be pre-configured by the user, as the networks are self-forming (the network establishes itself). When a new node is powered-up, it is automatically integrated into the network and becomes fully operational in a fraction of a second. Furthermore, SNAPShot™ wireless networks are self-healing – if a node fails for any reason, other nodes will automatically route signals around the failed node.



Technical Information

	STG.CBC.12.S	STG.CBC.14.S	STG.CBC.16.S	STG.CBC.24.S	STG.CBC.32.S
Voltage Rating (VDC)	600	600	600	1000	1000
Maximum DC Current (A)	240	280	320	480	640
Max. Continuous Current (A)	154	179	205	308	410
Max. Positive Input Wire Size (AWG)	8	8	8	8	8
Max. Negative Input Wire Size (AWG)	4	4	2	2	2
Ouput Wire Size (AWG)	4-350MCM	4-350MCM	4-350MCM	4-350MCM	4-350MCM
Overall Dimensions	20” x 24” x 8”	20” x 24” x 8”	20” x 24” x 8”	36” x 30” x 10”	36” x 30” x 10”
Enclosure Rating	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X
Number of Fuse Poles	12	14	16	24	32
Max. Input Fuse Rating (A)	30	30	30	30	30
Operating Temperature (C˚)	-40 to 50	-40 to 50	-40 to 50	-40 to 50	-40 to 50

SNAPshot™ WIRELESS GATEWAY

A RUGGED, EMBEDDED NETWORK APPLIANCE BUILT TO DIRECTLY INTERFACE WITH SNAPSHOT WIRELESS NETWORKS. DESIGNED FOR THE COLLECTION AND PROCESSING OF MONITORING DATA, THE SNAPSHOT WIRELESS GATEWAY CAN TRANSMIT DATA VIA TCP/IP WITHOUT REQUIRING FIREWALL CONFIGURATION OR POLICY EXCEPTIONS.

Features

Built upon fully accessible Linux services
32-bit RISC architecture
400MHz CPU
256MB Flash Memory, expandable via external USB drive
64MB RAM
RP-SMA External Antenna
SNAPshot RF Engine, 2.4GHz, IEEE 802.15.4
10/100 Mb Ethernet & USB 2.0 ports
MODBUS TCP compatible

MC3 LOCKING CLAMSHELL

PROVIDES PROTECTION FROM THE ELEMENTS AND ACCIDENTAL DISCONNECTION OF MC3 CONNECTORS PROVIDING FULL 2008 NEC 690.33(C) COMPLIANCE FOR YOUR INSTALLATION.

Features

2008 NEC 690.33(C) compliant
Canadian NEC Section 50-16 (D) compliant
Requires tool to remove
Sunlight resistant
Available in black or yellow
UL listed material

Yellow
Part Number: STG.CS.3.Y

Black
Part Number: STG.CS.3.B

SHOALS 2000V PV WIRE

SHOALS 2000V PV WIRE IS A UL LISTED PV WIRE FEATURING A FEATURING A SINGLE LAYER XLP INSULATION DESIGNED FOR USE ON UNGROUNDED SYSTEMS WITHOUT THE NEED FOR CONDUIT WHEN INSTALLED EXPOSED.

Features

Meets newest National Electric Code (NEC) Article 690 standards.
Suitable for continuous operating temperature of 90°C wet or dry
Direct burial 2kV
Cold bend impact: -40°C
UL listed as Sunlight Resistant
Compatible with all major connectors

Ratings and Approvals

UL listed as 2000V Type PV
UL listed as RHH/RHW-2
90°C Temperature Rating
UL Subject 4703: Outline of Investigation for Photovoltaic Wire, Type PV, Direct Burial
Meets the requirement of UL 854 for TYPE USE-2

Technical Information

AWG	# of Strands	Insulation Thickness (inches)	Nominal OD (inches)	Net Weight (lbs/1000ft)
14	19	0.075	0.220	31.9
12	19	0.07	0.237	41.3
10	19	0.075	0.261	56.6
8	19	0.085	0.312	85.7
14	7	0.075	0.220	31.9
12	7	0.075	0.237	41.3
10	7	0.075	0.261	56.6
8	7	0.075	0.261	85.7

SHOALS DUAL LISTED PV WIRE

THE FIRST U.S. MANUFACTURED SOLAR CABLE TO ACHIEVE TUV AND UL CERTIFICATION, BASED ON A VERSATILE SINGLE-CONDUCTOR DESIGN TO MEET THE VARYING NEEDS OF THE SOLAR INDUSTRY.

Features

Two low smoke halogen-free, flame retardant and sunlight resistant cross-linked compound outer layer and halogen-free thermoset polyolefin inner layer.

Continuous operating temperature of 90°C wet or dry

UL listed as Sunlight Resistant

Vertical Flame Performance: EN 60332-1

Excellent UV and Ozone resistant

Suitable for wet, damp and humid locations

Specially designed for excellent flexibility

Compatible with all major connectors

Available in Black or Red

Ratings and Approvals

TUV Certification 2 Pfg 1169/08.2007

TUV Listed as PV1-F; 1000V

UL Listed as Type USE-2

UL Listed as RHW-2

UL Standard 44: Thermoset Insulated Wires & Cables, Type RHW-2

UL Standard 854: Standard for Safety for Service Entrance Cables, Type USE-2; 600V

ASTM B-3: Standard Specification for Soft or Annealed Copper Wire

ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes

90°C Temperature Rating; Temperature index in excess of 120°C

Technical Information

AWG	# of Strands	Inner Insulation Thickness (inches)	Outer Insulation Thickness (inches)	Nominal OD (inches)	Net Weight (lbs/1000ft)
14	45	0.045	0.030	0.245	41
12	52	0.045	0.030	0.265	48
10	78	0.045	0.030	0.286	62

IN-LINE FUSES

REDUCE BOTH THE TIME AND MONEY NECESSARY TO COMPLETE AND MAINTAIN YOUR PV INSTALLATION BY REDUCING THE NUMBER OF REQUIRED COMBINER BOXES.

Features

Replace combiner boxes
Units range from 2A to 20A
Available in 600VDC or 1000VDC
IP-67 Ingress Protection Rating
Built-In Blocking Diode (Optional)

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Technical Information

	In-Line Fuse
Ampere Rating (A)	2 - 20
Dielectric Strength (VDC)	3000
Maximum Ambient Temperature (C˚)	50
Flammability Rating	V0 per UL94
Plastic Type	PPE
Maximum Wire Size (AWG)	10
Connector Type	Any approved PV Connector

INTERCONNECT SYSTEM

SHOALS' PATENTED INTERCONNECT SYSTEM™ AND PRE-FABRICATED HARNESSES REDUCE THE SPECIALIZED LABOR, INSTALLATION TIME AND MATERIAL COST REQUIRED IN ANY PV PROJECT.

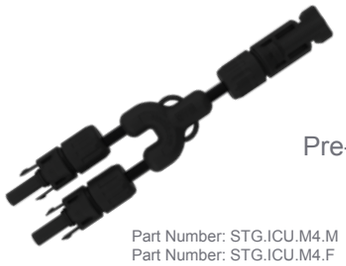
Features

Resistance Welded Joints
Shoals SS Sealing Technology
Custom manufactured to the install
Pre-labeled to decrease installation time and errors

Benefits

Reduced potential points of failure
Reduced maintenance costs
Line failures reduced over 90%
Average 20% reduction in labor cost
Average 50% reduction in material cost

Part Number: STG.ICX.M3.M
Part Number: STG.ICX.M3.F



Part Number: STG.ICU.M4.M
Part Number: STG.ICU.M4.F

Part Number: STG.ICT.M4.M
Part Number: STG.ICT.M4.F

Part Number: STG.ICY.M3.M
Part Number: STG.ICY.M3.F

*Patent Pending

Technical Information

	Shoals Interconnect™ System
Maximum System Voltage (VDC)	600V UL / 1000V IEC
Maximum Current (A)	20A (12AWG) / 30A (8AWG)
Maximum Operating Temperature (C°)	90
Minimum Pull Out Force (lbf)	130
Wet Hi-Pot Leakage Current (µA)	<1

FLEXLINE JUNCTION BOX

DESIGNED TO ACCOMMODATE FLEXIBLE AND RIGID THIN-FILM MODULES THE FLEXLINE JUNCTION BOX PROVIDES BOTH A COST EFFECTIVE DESIGN AND UNPARALLELED ADHESION STANDARD.

Features

Suitable for flexible or rigid modules
Suitable for 600V or 1000V systems
Low profile, 20mm, design to reduce material and installation costs
Customizable wire lengths
IP67 protection rating, IP68 when attached to module
Customizable connector solutions
Designed in conformity with TÜV and UL standards

Flexline Junction Box
Part Number: STG.FL.JB.21

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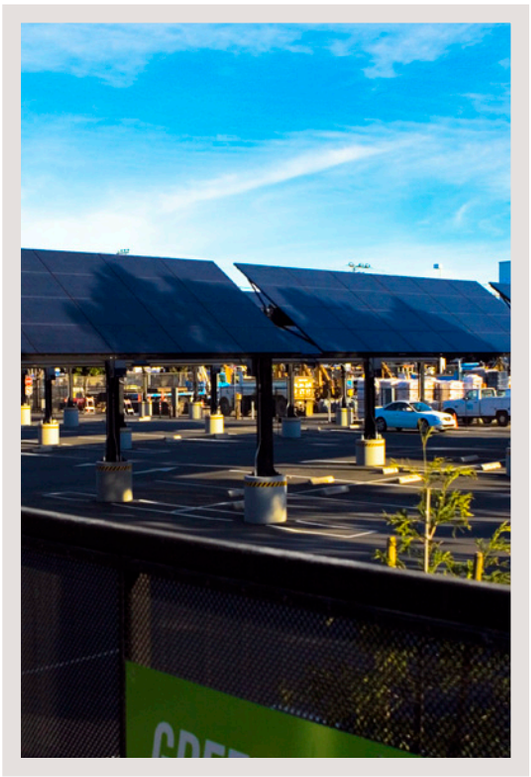
Technical Information

	STG.FL.JB.21
Rated Current (A)	10
Rated Voltage (VDC)	600 UL / 1000 IEC
Diodes	Customizable
Installation	Adhesive Tape
Connection of Contact Ribbons	Soldering
Insulation Material	PPE/PS
Degree of Protection	IP67
Safety Class	II
Flame Class	5VA
Ambient Temperature Range (C°)	-40 to 90
Cable Size (AWG)	12-14
Connectors	Any Approved PV Connector



SHOALS CONNECT JUNCTION BOX

A LOW PROFILE DESIGN (ONLY 17.5MM), OPTIMIZED DIMENSIONS REDUCING MATERIAL AND INSTALLATION COSTS WHILE STILL ALLOWING FOR DIODE INSTALLATION AND BUILT IN STRAIN RELIEF MAKE THIS THE PREMIERE JUNCTION BOX FOR RIGID MODULES.

Features

Built-in strain relief feature to protect wire
Low profile design to reduce material and installation costs
Customizable wire lengths
Customizable connector solutions
Designed in conformity with TÜV and UL standards

Technical Information

	STG.SC.JB.32
Rated Current (A)	10
Rated Voltage (VDC)	600 UL / 1000 IEC
Diodes	Customizable
Installation	Adhesive Tape
Connection of Contact Ribbons	Soldering
Insulation Material	PPE
Degree of Protection	IP67
Safety Class	II
Flame Class	UL94-V0
Ambient Temperature Range (C°)	-40 to 90
Cable Size (AWG)	12-14
Connectors	Any Approved PV Connector

Shoals Connect™ Junction Box
Part Number: STG.SC.JB.32

STAND-ALONE POWER OPTIMIZERS

with SolarMagic™ TECHNOLOGY

POWER OPTIMIZATION INCREASES PV SYSTEM ENERGY HARVEST AND MAXIMIZES ROI BY CORRECTING HIDDEN IMBALANCE AND EXTENDING SYSTEM LIFE. IMBALANCE IS CAUSED BY CURRENT OR VOLTAGE MISMATCH AND CAN PREVENT SYSTEMS FROM MEETING PERFORMANCE EXPECTATIONS. SOLARMAGIC™ POWER OPTIMIZATION IMPROVES SYSTEM OUTPUT REGARDLESS OF ENVIRONMENTAL CONDITIONS, WEATHER, OR DESIGN. INDEPENDENT STUDIES HAVE SHOWN THAT SOLARMAGIC POWER OPTIMIZATION RECAPTURES UP TO 75% OF ENERGY LOST TO MISMATCH.

Features

Maximizes system ROI
Increases energy harvest
Lowers maintenance costs
Maximizes up-time and longevity
Lower balance of systems (BOS) cost
Higher lifetime PV system efficiency
Lower installation & engineering cost
Less than $0.12 per Watt

Module Integration

The power optimizer establishes a new level of performance while maintaining ease of system design and installation. It includes enhanced features such as 350W module power handling capability, industry-best efficiency (99.5% peak), tri-mode buck-boost architecture for highest system efficiency, and patent pending pass-through panel mode. Panel mode operation continually monitors for the presence of mismatch. If no mismatch is found, the power optimizer will pass through the power of the module instead of operating on it, ensuring maximum possible efficiency is attained.

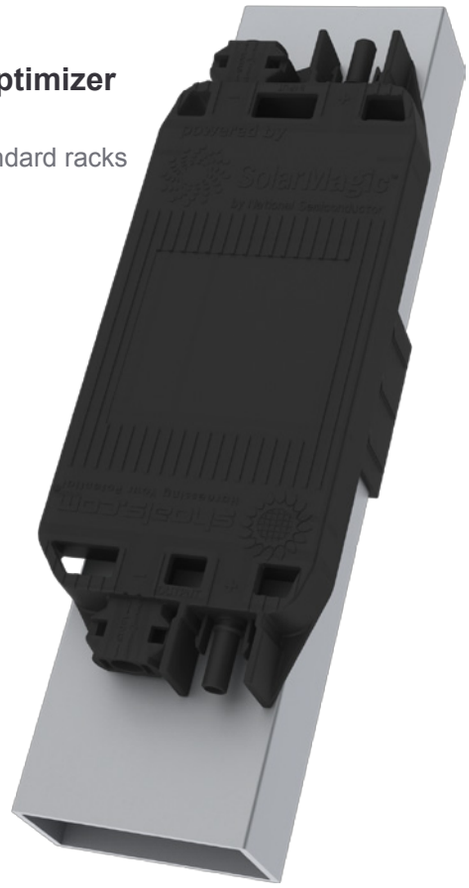
Rack-Mount Power Optimizer

Part Number: STG.SPO.RM.1

Mounts directly to most standard racks

Minimum installation time

Easily removable



Zip-Mount Power Optimizer

Part Number: STG.SPO.ZM.1

Suitable for any installation

Mounting tabs provide for multiple attachment methods

Frame-Mount Power Optimizer

Part Number: STG.SPO.FM.1

Mounts securely to module frame

Mounting clips reduce installation time

Easily removable

IN-LINE BLOCKING DIODE

STG2060-3A1/4A1 - Operating Specifications

Symbol	Parameter	Min	Typical	Max
V_{SYS}	System Voltage			600Vdc
I_{IN}	Input Current (PV Isc)			12.5A
V_F	Foward Voltage Drop		0.7Vdc	1.26Vdc
η	Efficiency		99.8%	
T_A	Operating Temperature	-40°F (-40°C)		158°F (70°C)

STG2100-3A1/4A1 - Operating Specifications

Symbol	Parameter	Min	Typical	Max
V_{SYS}	System Voltage			1000Vdc
I_{IN}	Input Current (PV Isc)			12.5A
V_F	Foward Voltage Drop		0.7Vdc	1.26Vdc
η	Efficiency		99.8%	
T_A	Operating Temperature	-40°F (-40°C)		158°F (70°C)

Physical Specifications

Model	Body Dimension	Weight	Connector Type
STG2060-3A1	3.93” x 3.33” x 1.68”	12.5 oz.	MC3
STG2060-3A1	(10 x 8.45 x 4.28 cm)	(0.36 kg)	
STG2060-4A1	3.93” x 3.33” x 1.68”	12.5 oz.	MC4
STG2060-4A1	(10 x 8.45 x 4.28 cm)	(0.36 kg)	

MultiLink sun
by Shoals & Multi-Contact

THE MULTILINK JUNCTION BOX SYSTEM ELIMINATES THE RISK OF MODULE INTEGRATED POWER ELECTRONICS BY GIVING THE MODULE A UNIVERSAL AND INTERCHANGABLE INTERFACE COMPATIBLE WITH ALL OF TODAY'S LEADING ELETRONICS MANUFACTURERS.

Features

Universal interface with all leading PV electronics

Ensures "smart" module is "future proof"

Eliminates manufacturer's risk of integrating a single power electronic into the module

Available with or without diodes

Lower installation and engineering cost

Can ship as standard junction box with optional accessory module.

Additional accessory modules to be released Summer of 2011

Technical Information

	STG.MLB.2	STG.MLB.2D
Rated Current (A)	10	10
Rated Voltage (VDC)	600 UL / 1000 IEC	600 UL / 1000 IEC
Diodes	No	Yes
Installation	Silicon Adhesive	Silicon Adhesive
Connection of Contact Ribbons	Soldering	Soldering
Insulation Material	PPE	PPE
Degree of Protection	IP67	IP67
Safety Class	II	II
Flame Class	UL94-V0	UL94-V0
Ambient Temperature Range (C°)	-40 to 90	-40 to 90

Standard MultiLink™ Accessory Module

Part Number: STG-MLM2-1

SolarMagic™ TECHNOLOGY

Available SolarMagic™ Power Optimizers

SolarMagic™ Power Optimizer - SM3320-1A1
SolarMagic™ Power Optimizer - SM3320-1B1
SolarMagic™ Power Optimizer - SM3320-1F1
SolarMagic™ Power Optimizer - SM3320-1S1

SolarMagic™ MultiLink™ Accessory Module

Part Number: STG-MLM2-2

ampt™

Ampt™ MultiLink™ Accessory Modules

Part Number:
STG-MLM2-34 - w/o Communication
STG-MLM2-35 - w/o Communication
STG-MLM2-310 - w/o Communication
STG-MLM2-34C - w/ Communication
STG-MLM2-35C - w/ Communication
STG-MLM2-310C - w/ Communication

Tigo Energy Maximizer®
MultiLink™ Accessory Module
Part Number: STG-MLM2-4

SolarEdge™ MultiLink™ Accessory Module
Part Number: STG-MLM2-5

Solantro™ MultiLink™ Accessory Module
Part Number: STG-MLM2-6

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