



## *Photovoltaic Connection*

- Connector Series
- Junction Box Series
- Branch Cable Series
- Cable Series





*Photovoltaic Connection*



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## ***PV Connector Series-S418***

1500V/1000V Connector

## TUV/UL 1500V High Current Connectors

### F-Type (Cable Mount)



### F-Type (Panel Mount)



### UHC Type



## Specifications

	F-Type	Ultra High Current
Connector Type	Outward Lock	Outward Lock
Rated Voltage	IEC/UL 1500 & 1000V	UL 1500 & 1000V
Rated Current	70A(TUV)/30A(UL)	65A(UL)
Contact Resistance (mating)	≤0.3 mΩ	
Rated Impulse Voltage	16kV (1500V Type) 12kV (1000V Type)	16kV (1500V Type) 12kV (1000V Type)
Water Protection Degree	IP68 (24H/1M)	IP68 (24H/1M)
Housing Material	PPE	PPE
Plating	Tin Plating	Ag Plating
For Cable Cross Section/AWG	2.5/4/6/10 sq-mm (TUV)	
	14/12/10 AWG(UL)	10/8/6 AWG(UL)
Cable Outer Diameter:	4.5-8.6	7.7-11.5mm
Flammability class	UL94-V0	UL94-V0
Ambient Temperature	-40 ~ +90°C	-40 ~ +90°C

*The specifications are subject to changes without notice!*

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## ***PV Connector Series-S415***

Branch Connectors 1500V

Branch Fuse Connectors 1000V

## Branch Connectors

- Unique snap-in and locking Mechanism
- Required additional tool to disconnect
- IP 67 water protection (Mated)
- Housing Material: PPE
- Contact Material: Copper Alloy With Silver Plating
- Branch Connector: UL #E343184
- Branch Fuse Connector: UL #E351893



P/N	S415-1	S415-2	S415-4	S415-5
Connector Type	1M2F	1F2M	1M2F	1F2M
Rated Voltage	600/1000/1500V	600/1000/1500V	1000V	1000V
Rated Current	30A	30A	30A	30A
Contact Resistance	TYP $\leq 0.5m\Omega$	TYP $\leq 0.5m\Omega$	N/A	N/A
Degree of Protection	IP67	IP67	IP67	IP67
Temperature Range	-40 ~ +90°C	-40 ~ +90°C	-40 ~ +75°C	-40 ~ +75°C
Flammability Class	Outside: 5VA Inside: V-0			
With Fuse (2-15A)			V	V
Without Fuse	V	V		
UL Certification	Certified	Certified	Certified	Certified
TUV Certification	In progress	In progress	N/A	N/A

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## ***Connector Series-S417***

Fuse Connector

UL1500V/UL1000V

## Fuse Connectors

- Over current protection for module strings
- Fuse replaceable
- MC4 / H4 connector compatible
- Housing Material: PPE
- Contact Material: Copper alloy with Tin plated
- UL Certified #E351893



1500V Type



1000V Type



P/N	S417-01051	S417-01050		
Rated Voltage	1500V	1000V		
Certified Current	30A	30A		
Rated Current	15A	15A		
Degree of Protection	IP67	IP67		
Operation Temperature	-40 ~ +75°C	-40 ~ +75°C		
Flammability Class	UL94-V0	UL94-V0		
Recommendation Fuse	1500V 2-15A	1000V 2-15A		
Fuse Dimension	10x85mm	10x38mm		

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## ***Branch Cable Series***

DC Branch Cable 1500V/1000V



## DC Branch Cable Types

1 to 2

1 to 3

2 to 2

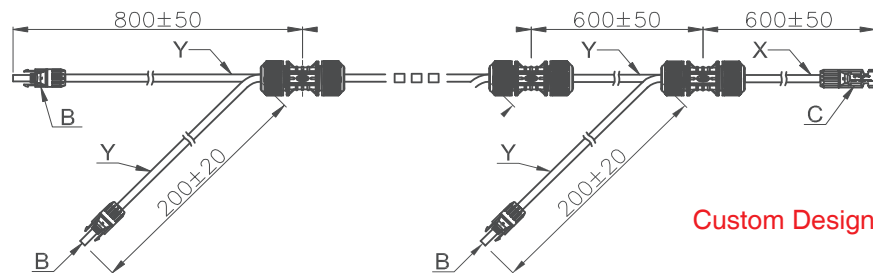
3 to 3



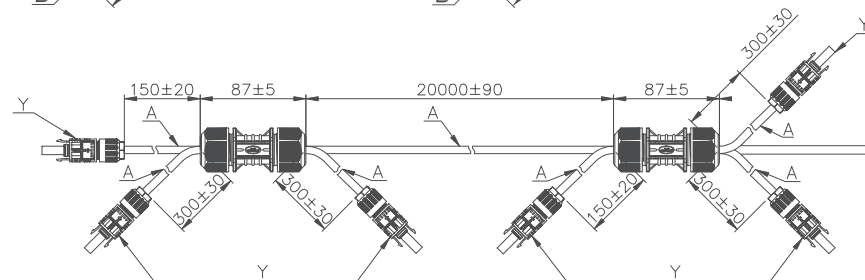
## Specifications

Housing	PPE
Rated Voltage:	1500/1000V
Rated Current:	TUV53A/UL30A
Protection Degree:	IP68
Temperature Range:	TUV -40°C~+90°C
	UL -40°C~+85°C
Cable Size:	2.5/4.0/6.0 mm <sup>2</sup> or 10/12/14AWG
Connector Option:	BizLink S418, MC4, MC4-EVO2, H4, UTX

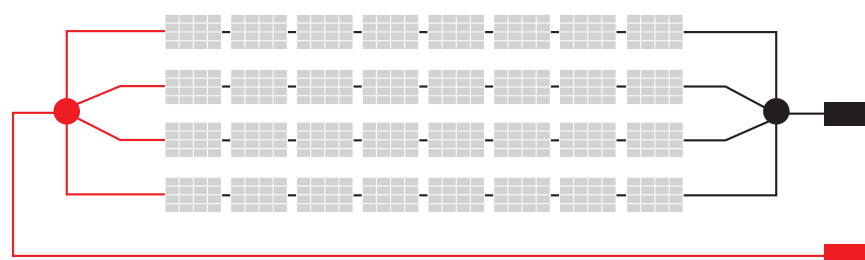
## Configuration Info



Custom Design



Custom Design



Parallel multiple strings in one output, require shorter cable length with lower resistance, increase power efficiency in field



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## ***Branch Cable Series***

DC Branch Fuse Holder

DC1500V/1000V

## DC Branch Fuse Holder

1 to 2

1 to 3

2 to 2

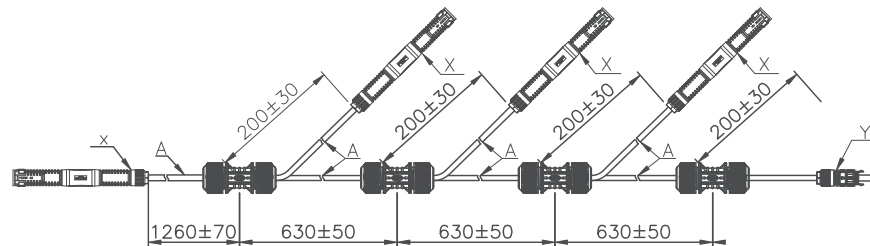
3 to 3



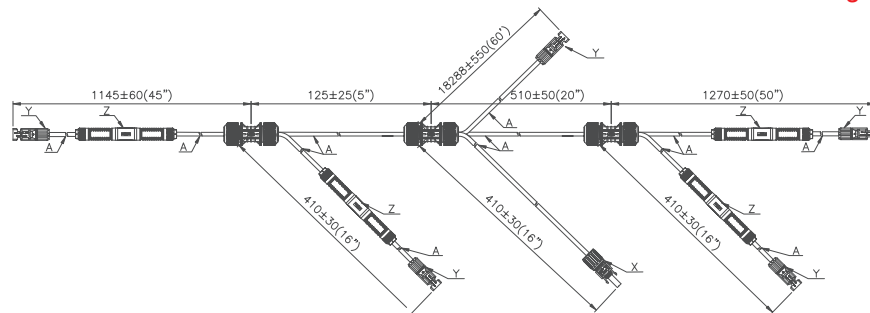
## Specifications

Rated Voltage:	1500V/1000V
Rated Current:	Connector – TUV53A/UL30A Fuse Holder – 15A
Protection Degree:	IP67
Operation Temperature:	-40°C ~ +75°C
Cable Size:	2.5/4.0/6.0 mm <sup>2</sup> or 10/12/14AWG
Connector Option:	BizLink S418, MC4, MC4-EVO2, H4, UTX
Fuse Specification:	1500V, 2-15A, 10x85mm 1000V, 2-15A, 10x38mm

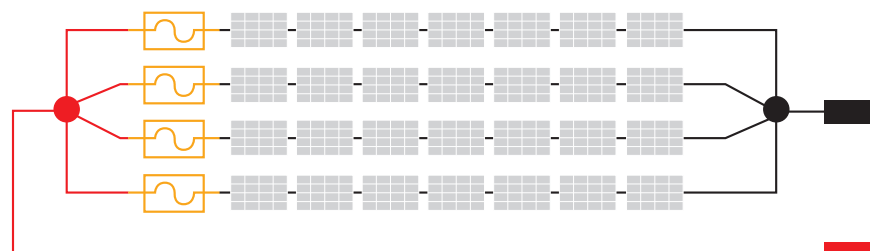
## Configuration Info



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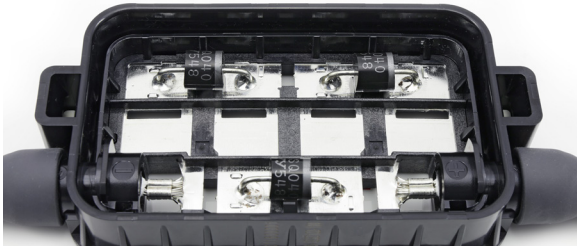
## ***Junction Box Series-S416***

TUV1500V/UL1500V

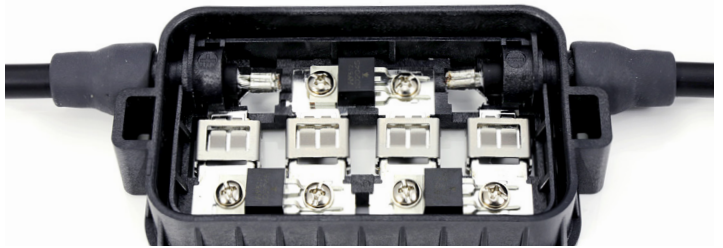
14/15A IP67/IP68

## TUV/UL1500V / Ribbon Connection Method

### Soldering Type



### Clamping Type



## Robust Structure in Compact Size



- High Quality Plastic for Long-Term Operation
- Cable Output In The Two Sides of Box for Reducing Cable Length.
- Special Surface Design for Better Heat Dissipation
- TUV #R50373802 UL #330398



## Specifications

Rated Voltage:	TUV/UL 1500&1000V
Rated Current(Isc):	14A (No potting) / 15A (Full potting)
Reverse Current	30A
Degree of protection:	IP67 No Potting/IP68 Full Potting
Temperature range:	-40°C to +90°C
Application Class:	Class A
Housing Material :	PPE
Contact Base Material:	Copper Alloy With Tin-Plating
Conductive Rail Pitch:	19~22mm
Ribbon Width:	6~8mm
Flammability Class:	Outside: 5VA, Inside: V-0
Diode Connection:	Soldering
Type of bypass diode:	40V25A or 45V30A
Connector:	BizLink S418, MC4, MC4-EVO2, H4, UTX
Dimension of Box:	97.8 x 59.4 x 19.9mm

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## ***Junction Box Series-S411***

1000/1500V 16A Split Type

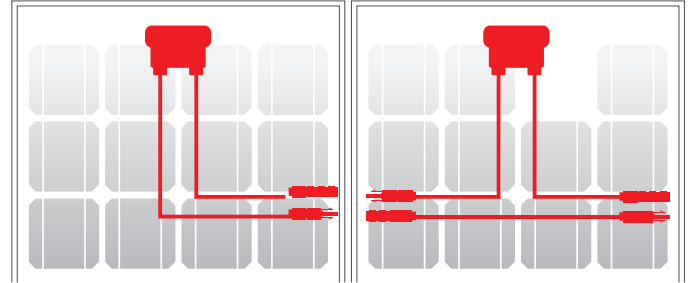
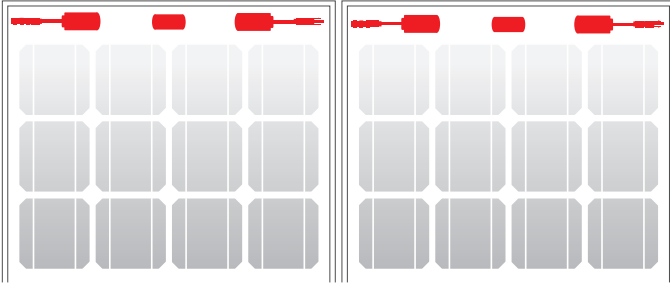
## 1500V16A & Save BOS Cost

Split Type:

Shorter Cable for Connection

Traditional Type:

Require longer Cable for Connection



## Thin Design for Bifacial Module



## Specifications

Rated Current(Isc) :	16A
Reverse Current :	30A
Rated Voltage :	1000 / 1500VDC
Protection Degree :	IP67 (Full Potting)
Operating Temperature :	-40°C ~ +90°C
Ribbon Connection Method :	Soldering
Flammability Class :	Outside: 5VA Inside: V-0
Housing Material :	PPE
Application Class :	Class A
Conductive Rail Pitch :	19~22mm
Ribbon Width :	Max 8mm (Base on pitch)
Contact Base Material:	Copper Alloy with Tin Plating
Diode Connection:	Soldering
Type of bypass diode:	45V30A *3
Connector:	BizLink S418, MC4, MC4-EVO2, H4, UTX
Dimension of Box:	Left & Right: 74.8x34x17.9mm, Middle: 57.6x34x17.9mm

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## ***Junction Box Series-S41A***

1000/1500V 17A



## 1500V/17A / Easy Installation/Removal Design

With Clip



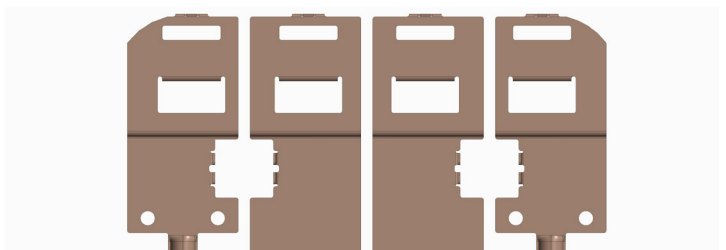
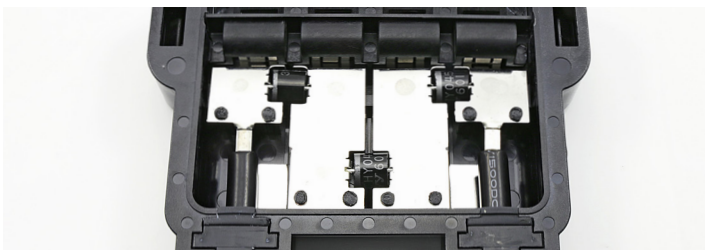
Without Clip



## High Performance Design

30A Diode for Max 17A Module  
Isc Application

Slim and Wide Conductive Strip  
Design for Effective Heat  
Dissipation



## Specifications

Rated Current(Isc) :	17A
Reverse Current :	30A
Rated Voltage :	1000 / 1500VDC
Protection Degree :	IP67
Operating Temperature :	-40°C ~ +90°C
Connection Method :	Soldering / Clamping
Flammability Class :	Outside: 5VA Inside: V-0
Housing Material :	PPE
Type of Bypass Diode :	30A45V *3
Application Class :	Class A
Conductive Rail Pitch :	19~22mm
Ribbon Width :	Max 10mm (Base on pitch)
Contact Base Material:	Copper Alloy with Tin Plating
Diode Connection:	Soldering
Type of bypass diode:	45V30A
Connector:	BizLink S418, MC4, MC4 EVO-2, H4, UTX
Dimension of Box:	114.3x87.1x20.0mm

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## ***Cable Series***

PV Cable

**Technical Data**

**Materials**

Conductor: Tinned copper wire  
Insulation : XLPO(TUV & UL) & XLPE(PSE EM CE/F & S-JET)  
Jacket : XLPE(TUV & UL & S-JET) , FRPE(PSE EM CE/F)

**Electrical**

Rated voltage : TUV 600V/1000V AC or 1500V DC  
UL 600VAC, 1000 & 2000VAC PSE 600V  
S-JET 1500V DC  
Rated current: see table

**Mechanical**

Min. bending radius: 4 x OD (OD<7.0mm)  
6 x OD (OD>7.0mm)

**Environmental**

Temperature Range TUV & UL & S-JET -40~90°C  
PSE -25-90°C  
Flame tested: EN 60332-1-2  
Halogen Free  
RoHS Compliant

**Safety Approval and Standards**

UL: Approved, File# E318358, E321658  
TÜV: Approved, Cert# 50274411 & 50108426  
PSE:JET 2381-12004-1001  
S-JET:1665-12024-001

**Specifications**

Cross Section [mm <sup>2</sup> ] TUV	1.5	2.5	4	6	10	16
Cross Section [mm <sup>2</sup> ] PSE	N/A	2	3.5	5.5	8	N/A
Cross Section [mm <sup>2</sup> ] S-JET	1.25	2	3.5	5.5	8	14
AWG UL	16	14	12	10	8	6
Conductor Composition EN50618 (TUV)	28/0.25	46/0.25	50/0.3	78/0.3	76/0.4	122/0.4
Conductor Composition PSE	N/A	7/0.6	7/0.8	7/1.0	7/1.2	N/A
Conductor Composition UL	26/0.254	43/0.25	48/0.30	76/0.30	65/0.404	105/0.404
Conductor Composition S-JET	23/0.26	38/0.26	53/0.29	83/0.29	63/0.40	112/0.40
Outer Diameter [mm] EN50618 1500V (TUV)	4.5	5.0	5.5	6.1	7.0	8.4
Outer Diameter [mm] TUV 600/1000V	4.1	4.5	5.0	6.0	7.0	8.8
DualLayerOD [mm] TUV 600/1000V&UL 1000V	5.4	5.8	6.3	6.9	8.5	10.4
DualLayerOD [mm] UL 600V	4.6	5.0	5.5	6.1	7.7	9.5
DualLayerOD [mm] UL 1000/2000V	5.4	5.8	6.3	6.9	8.2	10.0
DualLayerOD [mm] TUV 1500V&UL 1000/2000V	5.9	6.3	6.5	7.4	9.0	10.4
Outer Diameter [mm] PSE EM CE/F	N/A	6.4	7.0	8.0	8.6	N/A
Outer Diameter [mm] S-JET	5.0	5.5	6.1	6.8	7.5	8.8
TUV Rated Current*[A] DC	29	39	52	67	93	125
UL Rated Current	29	37	49	65	88	120
PSE Rated Current	N/A	38	51	69	89	N/A
S-JET Rated Current	27	37	51	68	85	120
Conductor Resistance [Ω/km] TUV	13.7	8.21	5.09	3.39	1.95	1.24
Conductor Resistance [Ω/km] UL	14.6	8.78	5.53	3.48	2.27	1.43
Conductor Resistance [Ω/km] PSE	N/A	9.24	5.2	3.33	2.31	N/A
Conductor Resistance [Ω/km] S-JET	17.5	9.63	5.41	3.47	2.41	1.35

Available in Black, Red and Blue (TUV & UL&S-JET)/Black Only (PSE)



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