



# CF1601-01 SERIES PHOTOVOLTAIC JUNCTION BOX



- Junction box for electric connection of bus ribbons on crystalline modules
- The design of the junction box allows fully automated assembly
- Optimized structure design for enhanced heat dissipation, and effective anti-aging performance
- Angled cable connection with junction box to prevent stress damage
- Using surface mounting diodes

## SYSTEM CERTIFICATES

ISO 9001:2008  
ISO 14001:2004  
OHSAS 18001:2007

## PRODUCT CERTIFICATES

UL 3703: CSA  
EN 50548:2011 + A1 / TÜV



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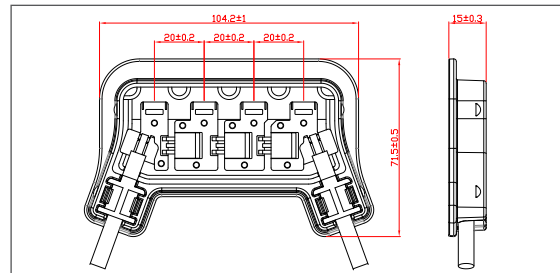
[www.frd solar.com](http://www.frd solar.com)



## TECHNICAL DATA

Ambient Temperature Range	-40 C to 85 C
Storage Temperature Range	-40 C to 85 C
Cooling Method	Potting
Dimensions (with cover)	See the drawing
Degree of protection	IP 67
Contact Material	Copper, T2 tin plated, H62
Insulation Material	Cover: PPE + PS Body: PA
Flame class	UL 94 5VB

## DIMENSION DRAWING



Part number	CF1601-01b	CF1601-01e
Diode Type	SB3045DY / GF3045MG	SB3045DY / GF3045MG
Number of Bypass Diode	3	3
Number of Bus Ribbons	4	4
Connection of Bus Ribbons	Soldering / Welding	Soldering / Welding
Diode Junction Temp Max Under Forward Current	200 C	200 C
Current Rating	15 A	15 A
Max Reverse Current	30 A	30 A
Rated String Voltage	1000 V (IEC) 1000 V (UL)	1500 V (IEC) 1500 V (UL)
Max Withstand Voltage	12 kV	16 kV
Cabling Type	PV1-F / PV Wire	H1Z2A2-K / PV Wire
Cable Length	1.0 m / Customized	1.0 m / Customized
Connector	PV2 / Customized	PV2 / Customized
Wire Cross Section	1×4.0 mm <sup>2</sup> , 12 AWG	1×4.0 mm <sup>2</sup> , 12 AWG
Outer Cable Diameter	6.6 ± 0.2 mm	6.4 ± 0.2 mm
Approvals	TUV / CSA	TUV / CSA

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