

shine with renewable vitality





## Introduction

Helios Power, established in 2023, is a pioneering manufacturer, exporter, and service provider specializing in a wide range of photovoltaic (PV) Connectors and PV Split Junction Box. With a strong commitment to innovation and sustainability, we cater to the renewable power industry by offering state-of-the-art electrical and electronic components, PV combiner boxes, and accessories.

Our expertise lies in utilizing advanced automation and injection molding technologies to produce high-quality, reliable solutions. Our product portfolio includes electrical PV Straight Connector, PV Panel Connector, PV Y-type Customized Wire harness solutions with and without Inline Fuse, PV Split Junction Boxes for PV module, PV DCDB & ACDB Enclosure, AC Cable Junction Boxes and various PV accessories.

At Helios Power, we are dedicated to supporting renewable energy initiatives through cutting-edge technology and superior service, making us a trusted partner in the global transition to clean energy.

## **Our Vision**

At **Helios Power**, we are driven by purposeful innovation. We see opportunities where others do not, and we take decisive action. Through business innovation, product development, and service excellence, our goal is to enhance the industry that powers the world.

Our focus is on service above all else, with a singular mission to advance our customers' businesses. By anticipating their needs, we collaborate closely to deliver exceptional products and services on time and within budget.

We are dedicated to a customer-centric approach, ensuring continuous improvement in quality and processes. Our commitment is to provide reliable, innovative design and engineering solutions with a focus on excellence in execution.

At **Helios Power**, teamwork is at the heart of everything we do. We take pride in achieving our goals and delivering a job well done, inspired by a shared sense of purpose and satisfaction in meeting our clients' expectations.

We are steadfast in our promise to provide high-quality products with punctual delivery, meeting and exceeding our clients' needs every time.



## **Our Mission**

To support and serve PV industries with products that offer relentless reliability, consistently meeting our customers' needs by designing and developing innovative solutions. Our goal is to enhance product efficiency, extend service life, and maximize power generation, positioning ourselves as a leader in the renewable power industry.

We aim to lead the PV module component manufacturing sector by promoting homegrown, Indian-designed, developed, and produced products with 50GW Capacity by 2030.





# Renewable Energy Roadmap

April -23 July-23

November-23

February-24

June-24

September-24

PV connector

Manufacturing of Enclosure box

Start manufacturing of PV wireharness

Manufacturing of ACDB & DCDB Enclosure

PV Split Junction Box for PV Modules 5 GW Capacity 50GW by 2030 TUV Certification of PV Connector, Panel Connector and Branch Connector

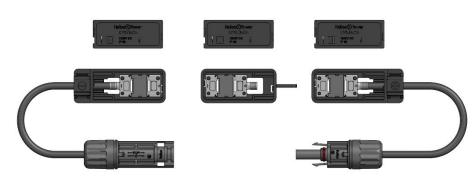


TUV Certification of PV Split Junction Box





## PV Split Junction Box



- Suitable for 1500VDC System Design
- Highest Diode Current Rating up to 25A/30A/35A
- Integrated Chip Type Schottky Diode
- 4 Sq.mm Solar DC Cable with Customization in Length.
- Dust & Water Ingress Protection: IP68
- UV Resistance
- Applicable standard IEC 62790:2020
- Suitable for Monoperc, Bifacial, Topcon cell type M10 & M12 PV Modules

5 GW Capacity Expansion plan 50 GW by 2030





### Solar Plug-in Connector

- Suitable for 1500VDC System Design
- Highest Current Rating 50A
- Compatible with 2.5, 4 & 6 Sq.mm DC Solar Cable.
- Dust & Water Ingress Protection : IP68
- UV Resistance
- Applicable standard IEC 62852:2014 (Amd. 2020-Under process.)
- Lowest Contact Resistance ≤0.25mΩ
- Ambient Temperature Range 40°C to +85°C
- Rated Impulse Voltage 16kV





- Highest Current Rating 50A
- Compatible with 2.5, 4 & 6 Sq.mm DC
- Solar Cable.
- Dust & Water Ingress Protection: IP68
- UV Resistance
- Applicable standard IEC 62852:2014 (Amd. 2020-Under process.)
- Lowest Contact Resistance ≤0.25mΩ
- Ambient Temperature Range 40°C to +85°C
- Rated Impulse Voltage 16kV







### **PV Wire Harness**

- 1500VDC System Design
- Dust & Water Ingress Protection : IP68
- UV Resistance
- Low contact resistance
- Customize with different size of DC cable length and size
- Customize with Inline-fuse Protection up to 32A

### **PV Inline Fuse Connector**

- 1500VDC System design
- Easy fuse Replacement provision
  - Up to 32A Fuse Ø10 x 85mm
- UV Resistance
- Customize with different size of DC cable length and size
- Customize with Inline-fuse Protection up to 32A







### **ACDB & DCDB Enclosure**

- 185 x130 x100mm (Hinged Type)
- 210 x180 x 100mm (Hinged Type)
- High Grade Plastic PC+ABS
- Dust & Water Ingress Protection : IP65
- UV Resistance
- Side knockouts for cable insert





### Solar Cable Clip

- High Quality with SS 304
- 20 years up life span
- Time saving while EPC
- No need to drill holes









TO-5389

HELTOS POWER

HELIOS POWER

GUJARAT.

Rating:

VADODARA-390 010,

MANUFACTURED BY:

SAMPLE DESCRIPTION

Rated voltage: 1500V DC

Rated normal current: 58A

1.0 IP 6X (Category 2) test

TEST DETAILS

PHOTOVOLTAIC POWER PLANT

(As provided by customer)

ULR-TC538924000016079F

C/1/900/2/A MAKARPURA GIDC.

NAME AND ADDRESS OF CUSTOMER

### ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of Indi ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India. EDABY + ±01 (0965) 2642942 2642964 2642377 3043128 / 29 / 30 / 31 / 33

+491 (0265) 2638383 ; erda@erda.org : http://www.erda.org







### CERTIFICATE No. B 127627 0001 Rev. 00

**HELIOS POWER** Holder of Certificate:

129/1, Aatmiya 2 Industrial Park on NH 8, Manglei, Karjan Vadodara 391243

Certification Mark:

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Product:

Connectors for Photovoltaic Systems

HP-A4 Max abcd(a=6~9.b=1~4.c=1500V.d=1 or 2) Model(s): HP-A4 P abcd(a=6~9.b=1~4.c=1500V.d=1 or 2)

HP-A4 nB1(n=2~3)

Parameters:

Rated Voltage: Rated Current: HP-A4 Max abod

(25A:2.5mm\*, 35A:4mm\* 40A:6mm<sup>2</sup>, 50A:10mm<sup>2</sup>) HP-A4 P abod (25A-2 5mm² 35A-4mm² 40A:6mm\* , 50A:10mm\* )

HP-A4 nB1(70A) Application Class Protection Class: Degree of Protection: IP65/68(1m.1h)

Ambient Temperature: -40°C ~ +85°C IEC 62852:2014

Tested according to:

IEC 62852:2014/AMD1:2020 EN 62852:2015/A1:2020

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to after the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: Valid until:

2024-09-06

701262425201-00 2026-09-21

Date.

( Yaqun Alex Liu )

TUV®

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**TEST REPORT** 

SHEET OF OF TEST REPORT NO.: RP-2425-010026 DATE OF ISSUE: 05/07/2024 CUSTOMER REF.NO. 26/06/2024 DATE OF SAMPLE DATE OF

RECEIPT TESTING 26/06/2024 04/07/2024 SAMPLE IDENTIFICATION

RDA Sample Code No.: Y-TYPE JOINT 2 IN 1 OUT FOR 1500V DC ERDA-00589302

Type designation: HPWHYA-BX-A-BYY

TEST SPECIFICATION

As per customer's requirement & test procedure followed as per IEC 62852:2014 & IEC 60529:2013

Enclosures: i) Photograph No.: 2425-004667/00589302/A to D (Total 4 nos.) : As per SHEET 02 OF 06.

Test witnessed by: Mr. Amit Gandhi (CEO) from M/s. Helios Power.

Note: If Due to moulded process design of the sample, IP 6X test was carried out according to Category 2 as declared by the customer.

I) IP 6X (Category 2) test was carried out only on the Y-type joint 2 in 1 out as shown in drawing no. HPWHY (Sheet 1 OF 2).

Remarks: Sample conforms to the requirement of the customer for IP 6X (Category 2) test.

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(MUNAF PATEL) APPROVED BY

This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara. This report cannot be reproduced in part under any circumstances. Publication of this report requires prior permission in writing from Director, ERDA.

This report shall not be used for any purpose such as PR brochures, propaganda, advertisement and/or legal processings.

unless for the granted purpose. Only the tests asked for by the customer have been carried out. Only the tests asset in the year cannot be seen an arrive occurs of manufacturery supplied by the customer, along with the test request/sample. ERDA closes not assume any responsibility for the correctness of the information from above mentioned Sample Under Test (SUT). SRDA will not be responsible for any changes in SUT make after the

test. This test report is given as per instrument status while testing.

In case of any dispute, Vadodara will be the exclusive jurisdiction is shall be construed as where the cause has

Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA within 10 years of

GUIARAT

HELTOS POWER

### ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION (Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

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: +91 (0265) 2638382 E-mail : erda@erda.org Web : http://www.erda.org







### TEST REPORT

SHEET 01 OF OF ULR-TC538924000016090F NAME AND ADDRESS OF CUSTOMER TEST REPORT NO.: RP-2425-010312 DATE OF ISSUE: 05/07/2024 **HELIOS POWER** CUSTOMER REF.NO. C/1/900/2/A MAKARPURA GIDC. VADODARA-390 010, DATE OF SAMPLE DATE OF MANUFACTURED BY: RECEIPT TESTING 29/06/2024 to 25/05/2024

SAMPLE DESCRIPTION SAMPLE IDENTIFICATION (As provided by customer)

ERDA Sample Code No.: Y-TYPE JOINT 2 IN 1 OUT FOR 1500V DC ERDA-00589302 PHOTOVOLTAIC POWER PLANT

Type designation: HPWHYA-BX-A-BYY

Rated voltage: 1500V DC Rated normal current: 58A

TEST DETAILS

TEST SPECIFICATION

1.0 IP X8 test

Rating:

IEC 62852:2014 & IEC 60529:2013

Enclosures: i) Photograph No.: 2425-004667/00589302/A to D (Total 4 nos.) ii) Drawing No. : As per SHEET 02 OF 06.

Test witnessed by: Mr. Amit Gandhi (CEO) from M/s, Helios Power,

Note: i) IP X8 test was carried out only on the Y-Type Joint 2 in 1 out as shown in drawing no. HPWHY (Sheet 1 OF 2). IP X8 test was carried out with the lowest portion of the enclosure 1.2 meter below the

furface of water for a duration of one hour as declared by the customer.

Remarks: Sample conforms to the requirement of IP X8 test as per the standard

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unless for the granted purpose.

Only the tests asked for by the customer have been carried out.

Particulars of manufacturer/supplier, given in this report are based on information supplied by the contonier, along with the test request/sample. EXDA does not assume any responsibility for the correctness of the information for above mentioned Sample Under Test (SUT). REDA will not be responsible for any changes in SUT made there the test. This test report is given as per instrument status while testing. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has

Caution: ERDA is not responsible for the authenticity of photocopied or reproduced test reports. ERDA provides support to customers for verification of the authenticity of test reports issued by ERDA within 10 years of date of issue of report.

### **Our Certifications**





### Certificate of Compliance

This is to certify that the Products & spares of class I according to the Machinery Manufacturing Directive 2006/42/EC manufactured by

NAME: ADDRESS:

C/1/900/2/A, MAKARPURA ROAD, MAKARPURA GIDC,

PRODUCTS: MANUFACTURING & TRADING OF PV PRODUCTS, ELECTRICAL & ELECTRONIC COMPONENTS. PV COMBINER BOXES, PV JUNCTION BOX, CABLE JUNCTION BOX. SOLAR DC CABLE CLIP AND ACCESSORIES FOR RENEWABLE POWER PLANTS

COMPLIES WITH THE REQUIREMENTS APPLICABLE TO IT

The Certification Body has performed an independent audit of the above product quality system covering the design, manufacture and final inspection of the certified product. The quality system has been assessed, approved and is subject to continuous surveillance according to the Machinery Manufacturing Directive 2006/42/EC

THIS CERTIFICATE IS ISSUED UNDER THE FOLLOWING CONDITIONS:

1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type-examination procedures, if requested.

2. The certificate remains valid until the manufacturing conditions or the quality systems are changed

The certificate validity is conditioned by positive results or surveillance audits.

 After fulfilling the relevant EU legislation, the manufacturer shall affix to each device, of the above references.

5. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production.

### Certification Calendar:

Client Id: 10568

Registered on: 14.02.2024

Expires on: 13.02.2027

1st Surveillance on/before: 13.02.2025

2nd Surveillance on/before: 13,02,2026

This is to Certify That Quality Management System of

### HELIOS POWER

C/1/900/2/A, MAKARPURA ROAD, MAKARPURA GIDC, VADODARA - 390010, GUJARAT, INDIA.

has been assessed and found to conform to the requirements of

for the following scope

MANUFACTURING & TRADING OF PV PRODUCTS, ELECTRICAL & ELECTRONIC COMPONENTS, PV COMBINER BOXES, PV JUNCTION BOX, CABLE JUNCTION BOX, SOLAR DC CABLE CLIP AND ACCESSORIES FOR RENEWABLE POWER PLANTS & POWER INDUSTRIES.

Certificate No 24MEOPH57

Initial Registration Date: 14/02/2024 Issuance Date : 14/02/2024 Date of Expiry

1st Surve, Due

13/02/2027 : 14/01/2025

2nd Surve. Due: 14/01/2026

Certificate No: INCE1402568

Issued on: 14.02.2024

**Executive Director** 

RADIANCE QUALITY CERTIFICATIONS office - 20-22 Wenlock Rd, Hoxt London N1 7GU, UK



1. Validity of this certificate is subject to the organization maintaining its system in accordance with respective management systems standards along with ROC requirement

This certificate remains the properly of radiance quality certifications to whom it must be returned upon request. Use of logo must be in accordance with the requirement of the UKASI, accredation board (in any) failure to meet the requirement shall be held liable for actions

This certificate is not final evidence of certification status, status must be verified in writing from info@ukushtd.co.uk or it can be verified online at http://ukashd.co.uk/certified-clients/







### Maanitude Management Services Pvt. Ltd.

Third Hore, A-60, Sector-2, Noida, Gastam Budh Nagar, U.P.-201301, India. e-mail: info@moucretfontion.com, website: some conscernification.com Pakjan to Saccoful Servellence Aude n case Servellence audie is not about us for endusted, this conflicter shall be majoralativelelensal History Profitation: Place Be chall the subtility of conflicter at large/hours assesser/factures, assesser/factures are non-newscripfication assess or non-newscripfication and a Active China Sect in the property of Magnetule Management Service Part. Leval staff be returned invended by these domanded.

## Certificate of Registration

This is to Certify That Environmental Management System of

### HELIOS POWER

C/1/900/2/A, MAKARPURA ROAD, MAKARPURA GIDC VADODARA - 390010, GUJARAT, INDIA

has been assessed and found to conform to the requirements of

for the following scope :

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Certificate No	:	24MEEPF45		
Initial Registration Date	:	14/02/2024	Issuance Date	: 14/02/2024
Date of Expiry	:	13/02/2027		
1st Surve, Due	:	14/01/2025	2nd Surve. Due	: 14/01/2026









DIRECTOR

Maanitude Management Services Pvt. Ltd.

Third Floor, A-60, Sector-2, Noble, Conton Bulli Nope, U.P.-201201, India. e-mail: info@mmscertifestion.com, website: were removerifestion.com "Subject to Societyfol Surveillance Andri a case Surveillance mode is not allowed to be conducted, in rifficate Varification: Heave Re-chart for ordibity of carificate as large-flower assessmellantee, one case is the property of Magazineth Management Service Pr. Lif. and shall be enterted insuchated.







## **Contact Us**

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