

HISkon[®] SOLUTIONS

Sungrow Inverter

OVERVIEW



HISCONNECT PLUS[®]

wiring solution for solar business

PART OF HISCONNECT SOLAR WIRING SYSTEM

ONE-STOP-SHOP SOLUTION FOR WIRING OF PV PLANTS

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PV cabling and switching professionals frequently work under time pressure and as a result want cables and components which they can install on site quickly and without too high cost. For such requirements, there is our assembly service: here, you get just the right cable at the right length with the right properties and connections. Obviously at the right time and the right place.

**OFF THE SHELF PRODUCTS.  
TAILOR MADE FOR YOU.**

By using innovative technology and the most modern machines and plant, we provide maximum efficiency in cable fabrication and testing, completely secure processes and a high plant availability. For almost 20 years, we have interacted intensively with customers, suppliers and partners on the subject of photovoltaics. This experience flows into every single assembly.



### HUGE WEALTH OF EXPERIENCE

Benefit from our many years of experience in numerous projects in the world.



### QUALITY & TESTING

Engineering, manufacturing and testing under one roof. Additional testing for special requirements.



### EASY TO INSTALL

Well thought out. Ready to use. Including necessary accessories to make installation safe, simple and quick.



### OPTIMIZATION CONCEPTS

Smart design to save costs (CapEx) helps to avoid extensive work during installation and operations (OpEx).



### INTERNATIONAL SUPPORT

With a multilingual engineering and sales team. HIS is managing several country-specific standards.

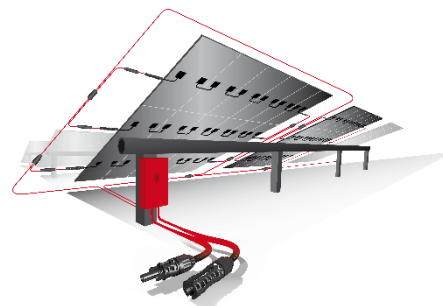
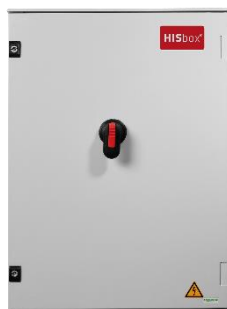


### REDUCE COST. RAISE PROFIT

Tailored concepts by comprehensive expert knowledge. Cost effective and sustainable solution for PV projects.

# COST EFFECTIVE AND SUSTAINABLE COMPLETE SOLUTION FOR PV PROJECTS

- High bankability for simple project financing
- Integrated system for all cabling and switching tasks
- Frictionless commissioning and compliance with project deadlines
- Greater plant availability due to long-life cabling and switching solutions
- Much reduced supply chain and access to HIS Logistics expertise
- Pluggable components and reduced installation times
- Reduced costs in operational plants because of low maintenance



**HISkon®**

PV cabling components  
part of HIS CONNECT®

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**HISbox®**

DC/AC string boxes  
part of HIS CONNECT®

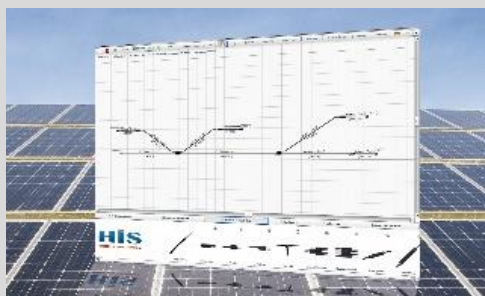
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**HISCONNECT®**

solar wiring system

## HIS supports you with the cable configuration

Drag and drop to create the assembly order to your requirements. Whether its endless chain, array harnesses, collectors in PV systems with crystalline modules or customer-specific solutions, HIS Renewables is pleased to be at your service. Get in touch with us or use directly on [www.his-solar.de](http://www.his-solar.de).



Take account of possible restrictions by used PV connector and reduction factor in case of cable accumulation (IEC 60364-5-52, Table A.52-17).

# HISkon® SPLITTER



## YOUR ADVANTAGES

- Easy and quick installation for efficient and smooth commissioning
- The most modern welding technology guarantees minimum transfer losses by bundling the DC output on the cable
- Reduction of DC cables
- Flexible splitter concept to meet your requirement

| Technical characteristics           |                                                                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal voltage                     | Up to 1,5kV DC                                                                                                                                                         |
| Rated Current cables                | Without connectors, Single layed, free in air at 90°C: 4,0mm <sup>2</sup> → 39,5 A; 6,0mm <sup>2</sup> -> 49,7 A; 10,0mm <sup>2</sup> -> 69,58 A* acc. IEC 60364-5-52. |
| Fuse characteristic / rated current | GPv, 4-32A 4-32A (If=1,45)                                                                                                                                             |
| IP-class of cable splitter          | IP65/68 (1m/24h) (Take note of connector's IP-protection!)                                                                                                             |
| Contact resistance                  | ≤ 0,1mΩ (Single HISkon splitter without connector)                                                                                                                     |
| Protection class                    | II (reinforced Insulation) acc. IEC 61140                                                                                                                              |
| Flame class                         | Self-extinguishing UL94-V2                                                                                                                                             |
| Temperature range                   | Ambient temperature -40° C to +90°C (without mechanical impact)                                                                                                        |
| Cable                               | HIKRA solar cable H1Z2Z2-K acc. EN50618; Minimum length between splitters and connector: 160mm                                                                         |
| Termination of splitter             | Monitored resistance welding process                                                                                                                                   |
| Molding Isolation                   | Specialized compound; UV-stabile                                                                                                                                       |
| Connector                           | Stäubli MC4, MC-EVO2 (2,5-10mm <sup>2</sup> ), Amphenol UTX                                                                                                            |

## Choose the right splitter for your Sungrow inverter

| Inverter        | PV-Connector | PN Splitter    | Polarity           | Fuses         |
|-----------------|--------------|----------------|--------------------|---------------|
| Sungrow SG33CX  | MC4          | U-SPLITTER0008 | male-male:female   | gPV Fuses 15A |
| Sungrow SG40CX  | MC4          | U-SPLITTER0007 | female-female:male | gPV Fuses 15A |
| Sungrow SG50CX  | MC4          | U-SPLITTER0010 | male-male:female   | None          |
| Sungrow SG110CX | MC4          | U-SPLITTER0009 | female-female:male | None          |
| Sungrow SG250HX | Amphenol UTX | U-SPLITTER0035 | male-male:female   | gPV Fuses 15A |
|                 | Amphenol UTX | U-SPLITTER0034 | female-female:male | gPV Fuses 15A |
|                 | Amphenol UTX | U-SPLITTER0037 | male-male:female   | None          |
|                 | Amphenol UTX | U-SPLITTER0036 | female-female:male | None          |

## Contact your Sales Manager to get the right splitter for your Sungrow inverter

| Country/Area        | Contact           | E-mail                               | Telephone       |
|---------------------|-------------------|--------------------------------------|-----------------|
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# HISCONNECT®

— solar wiring system



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