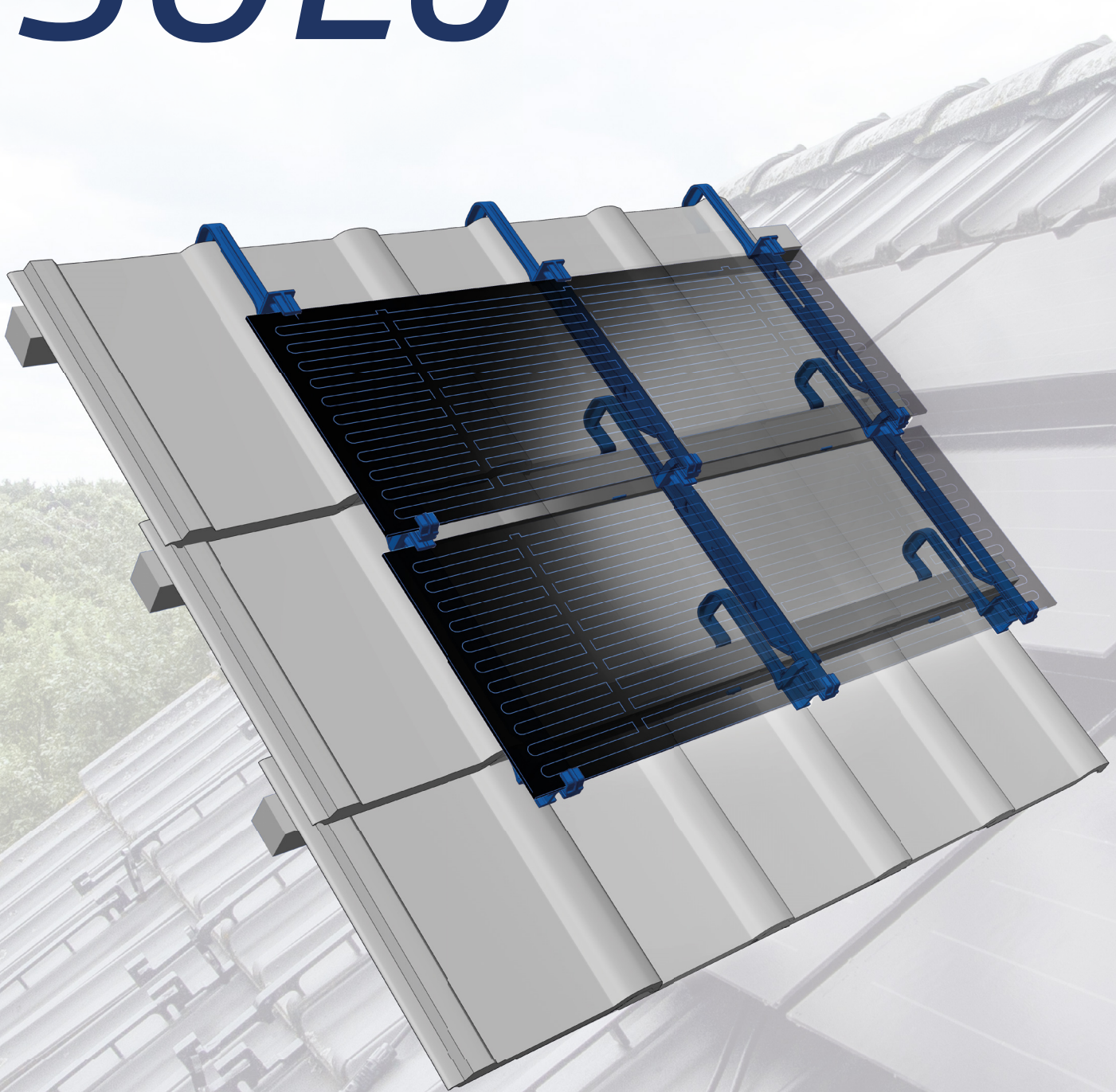
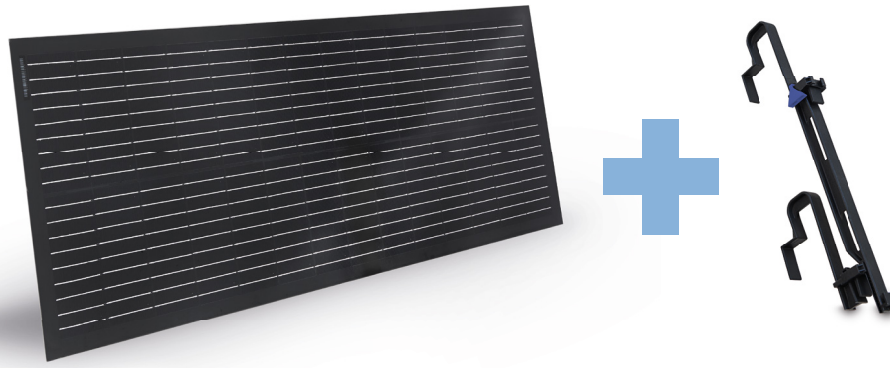


# *SOLo*



*SOLYCO SOLo  
small modules with  
great impact*



## The aesthetic PV solution for all tiled roofs

*The SLYCO SOLo is a particularly attractive and powerful solar system for tiled roofs. For anyone who wants to combine an ecological energy supply with their aesthetic demands on the building.*

### **SLYCO SOLo**

The SOLo solar system was developed as an elegant alternative to conventional solar systems. Both on a new build and as a retrofit, SOLo cuts a fine figure. The modules blend into the rows of roof tiles and can also make perfect use of small roof areas.

### **Mounting system**

The size of the SOLo makes it suitable for small and fragmented roof areas. The system allows a small distance between the modules – thus guaranteeing a high area performance. Completely without a rail system, SOLo can be mounted particularly quickly and without tools.

The slim hooks, made of a glass fiber-plastic mixture, are simply pushed under the tiles and hung into the roof battens. The hooks are then connected to the hooks below.

On the roof, the hooks form a composite, so that the mounting system achieves high stability with low weight. The frameless crystalline SOLo modules are each hung in hooks, secured and cabled. In just a few minutes, a complete PV system is installed row by row.

### **Modules**

The stylish full-black modules are the heart of SOLo. The height of the modules is based on the top length of the roof tiles.

Thanks to intelligent interconnection and the distance between the solar cells and the edge, a partial overlap of the modules is possible, thus enabling a flexible system design.

### **Performance**

A high electricity production under all operating conditions – in addition to the longevity – forms the basis for the economic viability of the solar system.

**High specific yield** - High power yield even in unfavourable weather conditions - thanks to excellent low light behaviour and a good temperature coefficient.

**Highly efficient solar cells** - Modern half-cell technology with interconnection forms the basis for the outstanding performance of our modules. Interconnection of the half-cells minimizes internal power losses and the risk of hot spots in partial shading.



The SOLo system on the roof

## Safety

**Mechanical** - The system is tested for resistance at a pressure of 6000 Pa and a suction of 2400 Pa.

**Fire** – With fire classification B<sub>ROOF</sub> (t1), the system achieves a high fire resistance.

**Electrical** - The SOLo is approved for a system voltage of up to 1000 V. For maximum electrical safety, it is equipped with fully encapsulated connection sockets with protection class IP67.

## Reliability

A solar system is a long-lasting investment. All our products undergo an intensive testing program before they are launched on the market. Continuous quality assurance at a high level is the basis for excellent performance over a long period of time. For this reason, we also demonstrate long-term resistance with climate chamber and stress tests. With over 20 years of product experience, the new SOLYCO SOLo can now come up with longer guarantees than its predecessor of the same name.

**Certified production facilities** - All SOLYCO solar modules are produced in the most modern, highly automated factories with the highest manufacturing standards to ensure consistent quality.

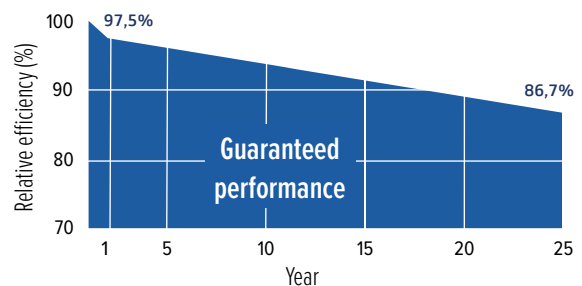
## Certifications

- IEC 61215:2016 (Module reliability)
- IEC 61730:2016 (Module safety)

## Warranty

- 25 year product warranty<sup>1</sup>
- 25 years of linear benefit commitment
- Guaranteed plus tolerance

<sup>1</sup>With system registration. Otherwise, 15 years.



## About us

*Sustainable energy production with innovative solar modules and systems – We shape the future with our customers*

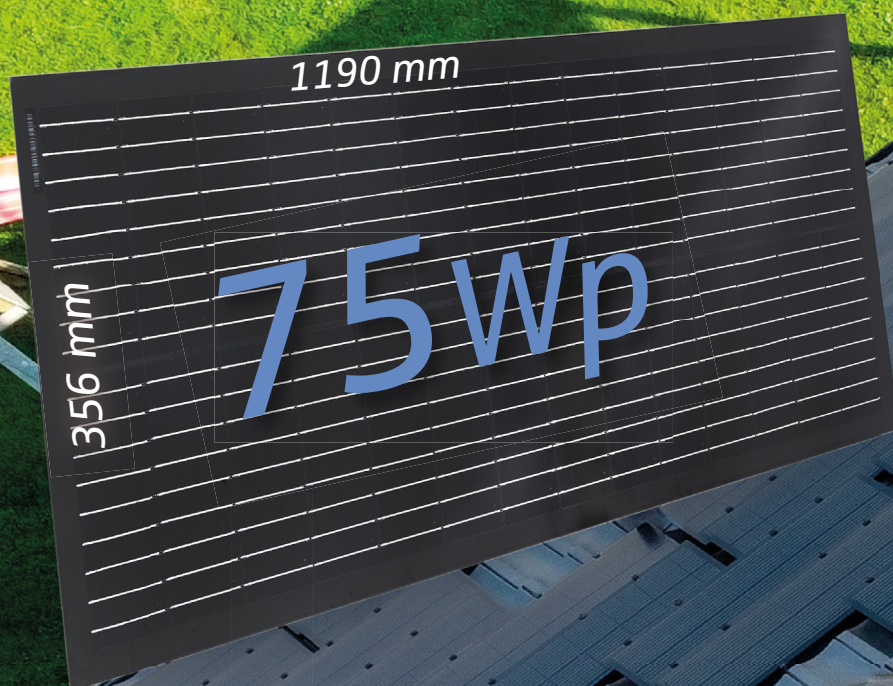
The SOLYCO team has been active in the field of photovoltaic modules and solar products since 1996. For more than 15 years from 1999 to 2014, we have played a decisive role in shaping the product strategy and quality philosophy of the former German solar group SOLON.

Today, we continue to have high standards of quality and aesthetics and offer high-quality products for the European solar market.

## Our mission

We want to make the production of solar energy on all roofs attractive and competitive. With our system solutions, roof surfaces can be used more efficiently to ensure a sustainable energy supply today and in the future. For this purpose, we offer innovative and aesthetic solar systems and modules for residential and commercial buildings.





## *A SOLYCO solar system that adapts*

To make the best possible use of the area, SOLo can be built with an offset of 33 %, 50 % or 66 %. In this way, it is possible to set up an optically attractive solar system.





*Video*

*Small modules with great impact*  
*The best energy is self-made*



# SOLo system components

## Overall system<sup>1</sup>

System weight	17.0 kg/m <sup>2</sup>
Performance per area <sup>2</sup>	177 W/m <sup>2</sup>
Permissible brick deck length	320 mm ... 380 mm
Mechanical resilience <sup>3</sup>	Pressure resistance tested at 6000 Pa Wind suction load capacity tested at 2400 Pa
Cable routing	Integrated in the hook
Components	solar module, hook, short hook, clip, Pin

<sup>1</sup>Including module, cable and hook; <sup>2</sup>According to STC;

<sup>3</sup>Specified pressure load resistance: 4000 Pa and suction load resistance: 1600 Pa

## Hook (1)

Dimension [L x W x H]	560 mm x 38 mm x 22 mm
Weight	241 g
Material	Polyamide filled with fiberglass, long-term stable
UV resistance	F1 (UL 746C)
Material thickness	4.2 – 6.0 mm

## Short hook / row end (2)

Dimension [L x W x H]	210 mm x 38 mm x 22 mm
Weight	103 g
Material	Polyamide filled with fiberglass, long-term stable
UV resistance	F1 (UL 746C)
Material thickness	4.2 – 6.0 mm

## Clip (3)

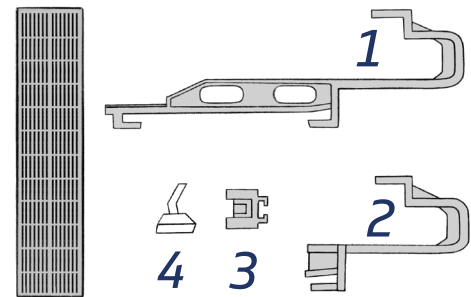
Dimension [L x W x H]	50 mm x 46 mm x 19 mm
Weight	15 g
Material	Polyamide filled with glass fiber, UV-resistant and long-term stable

## Pin (4)

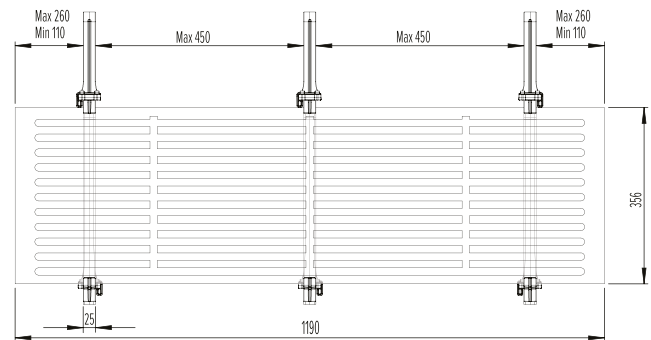
Dimension [L x W x H]	49 mm x 30 mm x 36 mm
Weight	4 g
Material	Polypropylene, UV-resistant and long-term stable

## Module and cable with plug

Module type	L-BG 28/75
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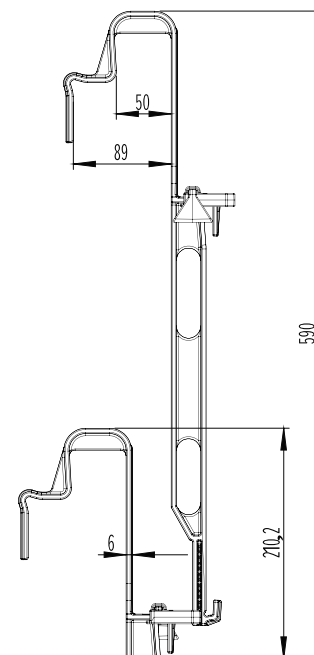


Overview of system components



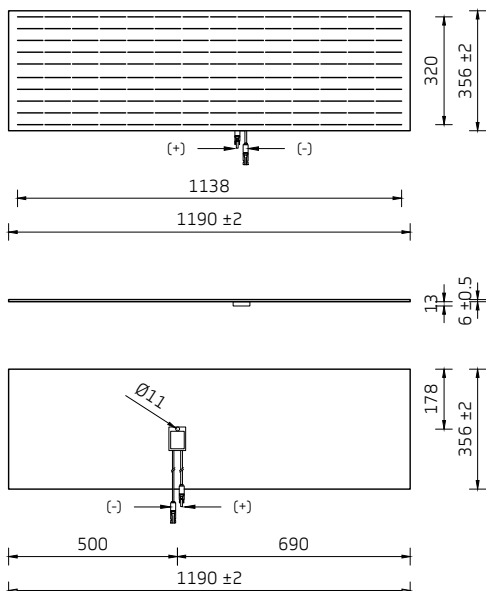
Terminal areas<sup>1</sup> on the SOLo PV module

<sup>1</sup>Mounting is also possible with 4 hooks. The outer distances must be observed (110 mm – 250 mm). The distance between the first and second hook (outward to inward) must not exceed 450 mm.



Dimensions of the SOLo hooks

# L-BG 28/75



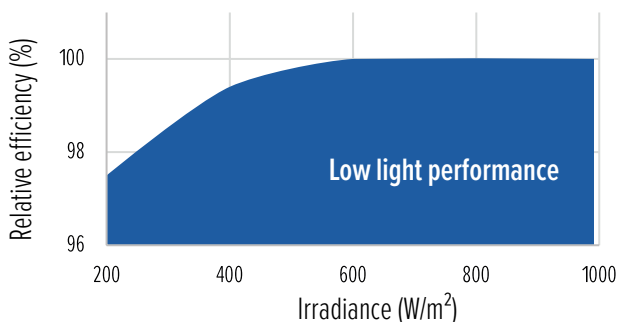
### Connection and working conditions

Maximum system voltage	1000 V
Temperature range	-40 °C ... +85 °C
Mechanical resilience <sup>1</sup>	Pressure resistance tested at 6000 Pa Wind suction load capacity tested at 2400 Pa
Safety class	II
Reverse current overload	15 A
Fire class	B <sub>ROOF</sub> (T1) (DIN EN 13501-5:2016-12)
Hail resistance	Hailstones up to 30 mm in size and at a speed of 24 m/s (HW3)

<sup>1</sup>Specified pressure load resistance: 4000 Pa and suction load resistance: 1600 Pa

### Temperature coefficients

TC of the maximum power (P <sub>max</sub> )	-0.35 %/°C
TC of open circuit voltage (V <sub>oc</sub> )	-0.28 %/°C
TC of short circuit current (I <sub>sc</sub> )	+0.05 %/°C



### General data

Cell technology	Monocrystalline
Cell size and number	158.8 mm x 79.4 mm; 28 pcs.
Module dimensions	356 mm x 1190 mm x 6,0 mm
Module weight	6.5 kg
Frame	Frameless
Front glass	2 x 2.5 mm ESG solar glass
Junction box and IP rating	With bypass diode, QC-Solar, IP67 fully encapsulated
Connectors	4 mm <sup>2</sup> solar cable with 100 cm (-) and 60 cm (-) length; pre-assembled MC4 plug, IP67
Packing	10 modules á carton, 40 - 80 modules á pallet,

### Electrical data (STC)

Nominal data at standard testing conditions (STC): Irradiance 1000 W/m<sup>2</sup>; Spectrum AM 1.5; module temperature 25 °C; sorting for P<sub>max</sub> 0 to +5 W

Module type	L-BG 28/75
STC power output P <sub>max</sub> (W <sub>p</sub> )	75
Nominal power voltage V <sub>mp</sub> (V)	7.98
Nominal power current I <sub>mp</sub> (A)	9.40
Open circuit voltage V <sub>oc</sub> (V)	9.38
Short circuit current I <sub>sc</sub> (A)	9.92
Module efficiency (%)	17.70

Tolerance P<sub>max</sub>: ±3,0 %; V<sub>oc</sub>, V<sub>mp</sub>, I<sub>sc</sub>, I<sub>mp</sub> tolerances: ±5,0 %

### Electrical data (NMOT)

Nominal data at NMOT (Nominal Module Operation Temperature): Irradiation intensity 800 W/m<sup>2</sup>; spectral distribution AM 1.5; ambient temperature 20 °C; wind velocity 1 m/s

Module type	L-BG 28/75
Solar cell temperature (°C)	45 +/- 2
Power output (W <sub>p</sub> )	57
Nominal power voltage V <sub>mp</sub> (V)	7.53
Nominal power current I <sub>mp</sub> (A)	7.59
Open circuit voltage V <sub>oc</sub> (V)	8.85
Short circuit current I <sub>sc</sub> (A)	8.01

Tolerance P<sub>max</sub>: ±3,0 %; V<sub>oc</sub>, V<sub>mp</sub>, I<sub>sc</sub>, I<sub>mp</sub> tolerances: ±5,0 %

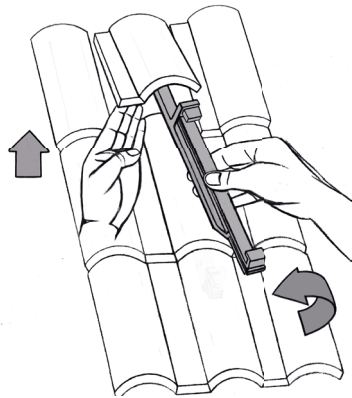
This data sheet corresponds to DIN EN 50380.  
Developed and designed in Germany.



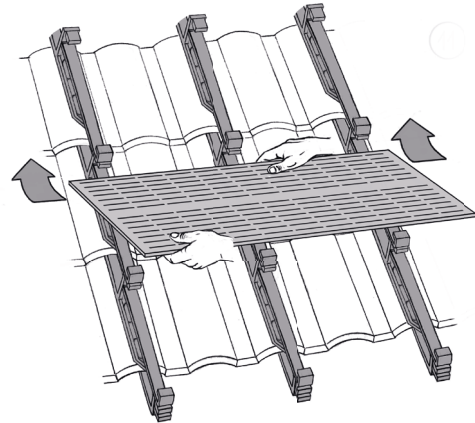
# SOLYCO SOLO



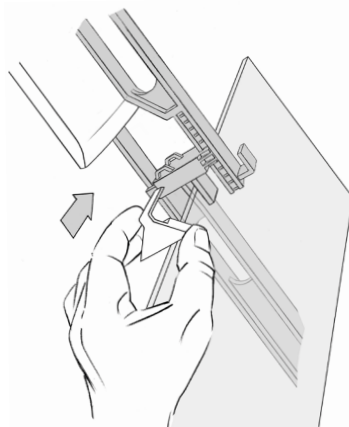
Tool-free, fast and easy



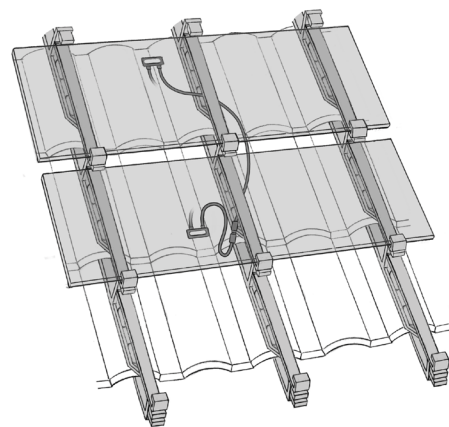
Hanging hooks and short hooks



Insert modules



Secure with pin



Connect the cable

SOLYCO Solar AG distributes their products through specialist trade partners. If you are interested, we will be happy to answer your questions and refer you to the right partner.



DS SOLYCO SO.Lo 2024-05-v2\_en



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