

# SL65-54TDP

## 410~430W

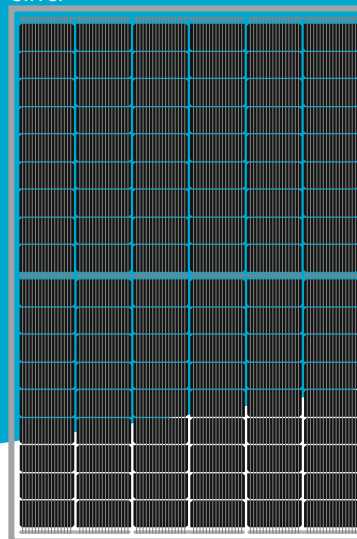
### N Type TOP Con Series

1,500V Monocrystalline PV Module

## CERTIFICATIONS

IEC 61215, 61730 / UL 61730  
 ISO 9001: Quality Management System  
 ISO 14001: Environmental Management System  
 ISO 45001: Occupational Health & Safety System

Silver



## FEATURES



Up to 25% more energy yield due to the back side power generation



Low LID & N-Type TopCon bifacial cell technology



Excellent performance under low light conditions

Cloudy days, mornings and evening



Enhanced External Load/Impact

Snow Load : 5,400 Pa  
 Wind Load : 2,400 Pa



Fire Safety

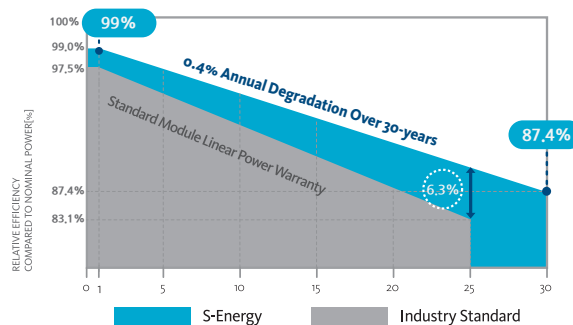
Class C (as per UL790)



## WARRANTY

12-YEARS PRODUCT WARRANTY

30-YEARS LINEAR PERFORMANCE WARRANTY



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(S-Energy Chile SpA)

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## ELECTRICAL CHARACTERISTICS

STC (Irradiance 1,000W/m <sup>2</sup> , module temperature 25°C, AM=1.5)	SL65-54TDP-410R	SL65-54TDP-415R	SL65-54TDP-420R	SL65-54TDP-425R	SL65-54TDP-430R
Rated Power (Pmax)	410W	415W	420W	425W	430W
Voltage at Pmax (Vmp)	31.52V	31.75V	32.01V	32.15V	32.36V
Current at Pmax (Imp)	13.01A	13.07A	13.12A	13.22A	13.29A
Warranted Minimum Pmax	410W	415W	420W	425W	430W
Short-Circuit Current (Isc)	14.07A	14.16A	14.23A	14.30A	14.36A
Open-Circuit Voltage (Voc)	37.80V	37.99V	38.10V	38.21V	38.42V
Module Efficiency	21.01%	21.27%	21.52%	21.78%	22.04%
Operating Module Temperature	-40°C to +85°C				
Maximum System Voltage	1500V				
Maximum Fuse Rated Current	30A				
Maximum Reverse Current	40.5A				
Power Tolerance / Binning Tolerance	±3.0% / 0~5W				

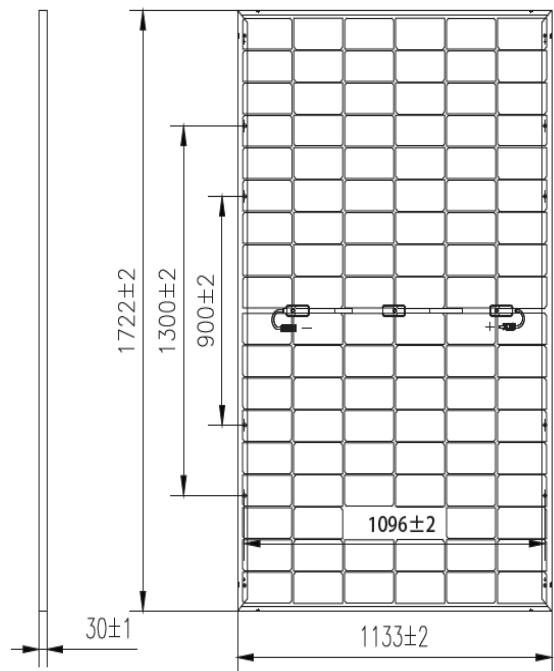
## ELECTRICAL CHARACTERISTICS back side power gain(reference to 430W front)

\*Bifaciality ≥70%

	452W	473W	495W	516W	538W
Pmax	452W	473W	495W	516W	538W
Voltage at Pmax (Vmp)	32.36V	32.36V	32.36V	32.46V	32.46V
Current at Pmax (Imp)	13.95A	14.62A	15.28A	15.90A	16.56A
Short-Circuit Current (Isc)	15.08A	15.80A	16.51A	17.23A	17.95A
Open-Circuit Voltage (Voc)	38.42V	38.42V	38.42V	38.52V	38.52V
Pmax gain	5%	10%	15%	20%	25%

## MECHANICAL CHARACTERISTICS

<b>Solar Cells</b>	Monocrystalline Cells 182x91mm
<b>Number of Cells</b>	54 Half Cells (6x24 Matrix)
<b>Dimensions</b>	1,722 x 1,133 x 30mm
<b>Front Load</b>	5,400Pa
<b>Rear Load</b>	2,400Pa
<b>Weight</b>	23.5kg
<b>Glass</b>	Dual glass, 2mm Tempered Glass
<b>Frame</b>	Anodized Aluminum Frame (Silver)
<b>J-Box</b>	<b>PV-ZPB040</b> (connector: PV-ZPJ030A) The 40th Institute of China Electronic Technology <b>Z8-abcd</b> (connectors: Z4S-abcd) Zerun Co.,Ltd <b>PV-XT1609Nxyz</b> (connectors: PV-XT101.1) Suzhou Xtong Photovoltaic Technologieso.,Ltd * ≥ IP68 with 3 bypass diodes
<b>Output Cables</b>	PV Wire, 12AWG (4mm <sup>2</sup> ), Cable Length : 300(+),200(-)mm * cable length can be customized

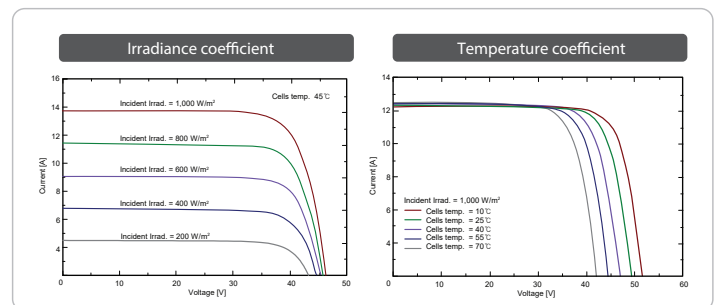


## TEMPERATURE CHARACTERISTICS

Temperature coefficient of Isc	0.045 % / °C
Temperature coefficient of Voc	-0.250 % / °C
Temperature coefficient of power	-0.300 % / °C
<b>NMOT</b> (Tair 20°C ; Irradiance 800W/m <sup>2</sup> ; Wind 1m/s)	42±2 °C

## PACKING CONFIGURATION

<b>Container</b>	20'	40'
<b>Modules Per Pallet</b>	36pcs	36pcs
<b>Pallets Per Container</b>	5pallets	26pallets
<b>Modules Per Container</b>	180pcs	936pcs



### REMARKS

- Pmax measurement tolerance : ±3.0%
- S-Energy uses triple A class simulator.
- Specification subject to change without prior notice.
- S-Energy reserves the rights of final interpretation.

### NOTES

Installation instruction supplied with the module must be duly followed. For further information which is not mentioned on installation guides or directions, please contact to our technical service department.  
· E-mail : Inquiry@s-energy.com

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