

SL65-54TEP

410~430W

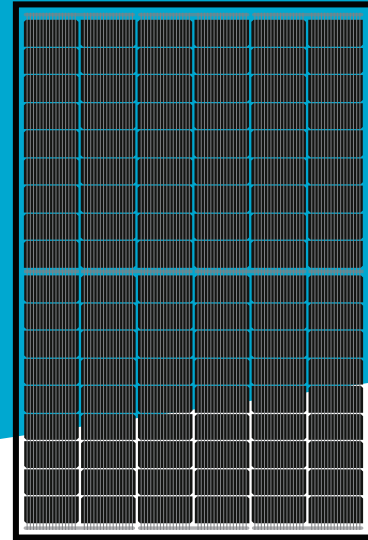
N Type TOP Con Series

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

Black



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



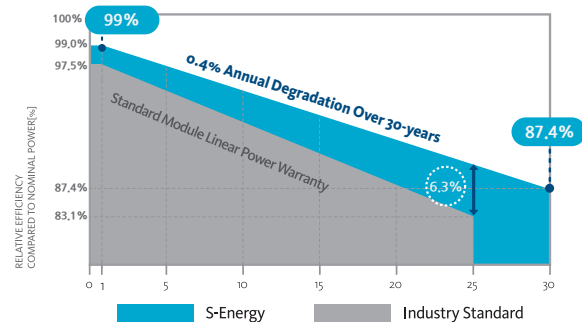
Fire Safety
 Class C (as per UL790)



WARRANTY

12-YEARS PRODUCT WARRANTY

30-YEARS LINEAR PERFORMANCE WARRANTY



S-Energy Co., Ltd.

S-Energy America
 (SEAI America, Inc.)

S-Energy Chile
 (S-Energy Chile SpA)

S-Energy Japan_Osaka Headquarters
 (S-Energy Japan Co., Ltd.)

S-Energy Japan_Tokyo Branch
 (S-Energy Japan Co., Ltd.)

A 20 PanGyoYeok-Ro 241BeonGil, BunDang-Gu, SeongNam-Si, GyeongGi-Do, Korea (3F MiraeAsset Tower)
 T +82-70-4339-7100 F +82-70-4339-7199 E inquiry@s-energy.com

A 1170 North Gilbert Street, Anaheim, CA 92801, U.S.A.
 T +1-949-281-7897 F +1-949-281-7893 E sales.us@s-energy.com

A Av. Cerro El Plomo N°5420, Office 402, Las Condes, Santiago, Chile
 T +56-22-604-8111 E sales.cl@s-energy.com

A 6F Hoshiwa City Building, 4-2-15 Kutaro-cho, Chuo-ku, Osaka, Japan
 T +81-6-4703-5388 F +81-6-4703-5387 E sales_jp@s-energy.com

A 6F Nishikicho BLDG., 1-8-11 Kandanishiki-cho, Chiyoda-ku, Tokyo, Japan
 T +81-3-6261-3759 F +81-3-6261-3769 E sales_jp@s-energy.com

Homepage



ELECTRICAL CHARACTERISTICS

STC (Irradiance 1,000W/m ² , module temperature 25°C, AM=1.5)	SL65-54TEP-410R	SL65-54TEP-415R	SL65-54TEP-420R	SL65-54TEP-425R	SL65-54TEP-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				

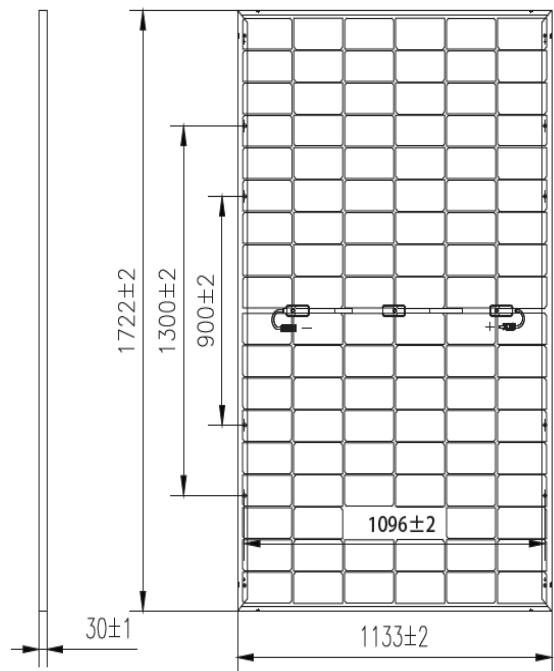
ELECTRICAL CHARACTERISTICS back side power gain(reference to 430W front)

*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

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

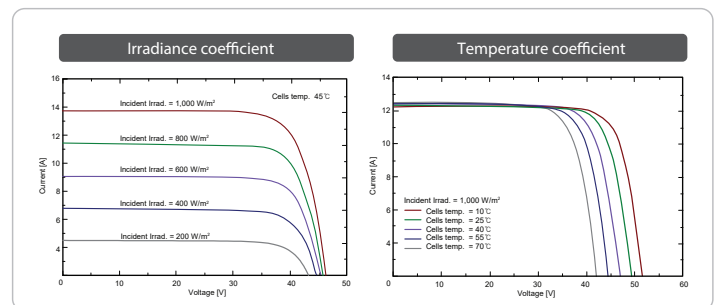


TEMPERATURE CHARACTERISTICS

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

PACKING CONFIGURATION

Container	20'	40'
Modules Per Pallet	36pcs	36pcs
Pallets Per Container	5pallets	26pallets
Modules Per Container	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

Factory address : No. 586, West Tongzipo Road, High-tech Development Zone Changsha City, Hunan Province, 410205, P.R. China / Made in China