

SL65-54TEP

415~430W

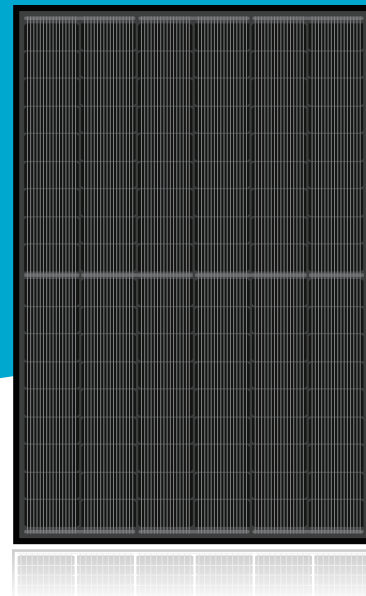
N Type TOP Con Series

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-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



PID Resistance

Enhanced Potential Induced Degradation Resistance



Fire Safety

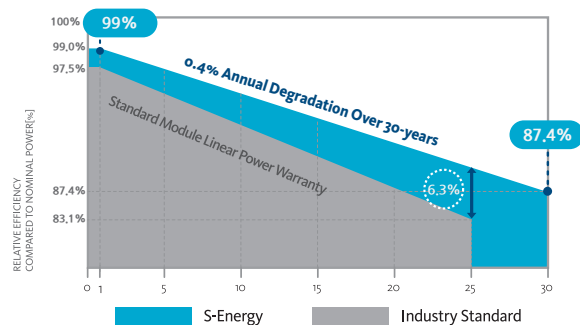
Spread of Flame Class A
 Burning Brand Class C



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 Kandanshiki-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-415W	SL65-54TEP-420V	SL65-54TEP-425V	SL65-54TEP-430V
Rated Power (Pmax)	415W	420W	425W	430W
Voltage at Pmax (Vmp)	31.33V	31.52V	31.72V	31.89V
Current at Pmax (Imp)	13.24A	13.32A	13.40A	13.50A
Warranted Minimum Pmax	415W	420W	425W	430W
Short-Circuit Current (Isc)	13.99A	14.07A	14.16A	14.24A
Open-Circuit Voltage (Voc)	37.92V	38.11V	38.40V	38.50V
Module Efficiency	21.25%	21.51%	21.76%	22.02%
Operating Module Temperature	-40°C to + 85°C			
Maximum System Voltage	1,500V			
Fuse Rating	30A			
Maximum Reverse Current	40.5A			
Power Tolerance	0 ~ +5W			

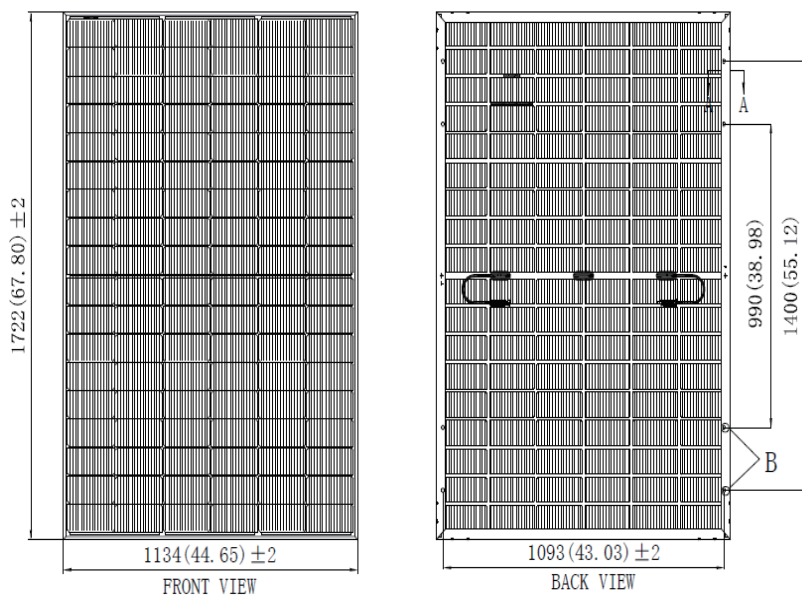
ELECTRICAL CHARACTERISTICS back side power gain(reference to 425W front)

*Bifaciality ≥80%

	446W	468W	489W	510W	531W
Pmax	446W	468W	489W	510W	531W
Voltage at Pmax (Vmp)	31.72V	31.72V	31.72V	31.82V	31.82V
Current at Pmax (Imp)	14.07A	14.74A	15.41A	16.03A	16.70A
Short-Circuit Current (Isc)	14.87A	15.58A	16.28A	16.99A	17.70A
Open-Circuit Voltage (Voc)	38.40V	38.40V	38.40V	38.50V	38.50V
Pmax gain	5%	10%	15%	20%	25%

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline Bifacial Cells 182x91mm
Number of Cells	54 Half Cells (6x18 Matrix)
Dimensions	1,722 x 1,134 x 30mm
Front / Rear Load	5,400Pa / 2,400Pa
Weight	24.7kg
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Rear Glass	Semi-toughened glass, 2.0mm
Frame	Anodized Aluminum Frame (Black)
J-Box	≥ IP68 with 3 bypass diodes
Output Cables	PV Wire, 12AWG (4mm ²), Cable Length : 500mm * cable length can be customized
Connectors	MC4 Original, Compatible

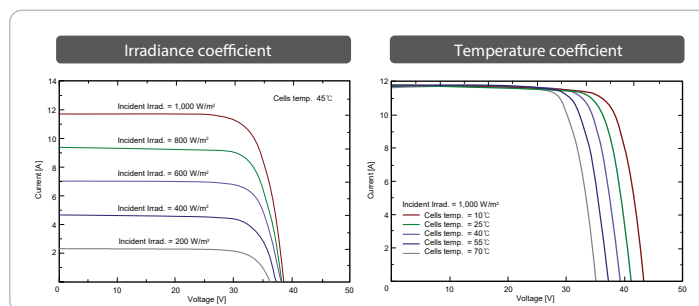


TEMPERATURE CHARACTERISTICS

Temperature coefficient of Isc	0.046 % / °C
Temperature coefficient of Voc	-0.260 % / °C
Temperature coefficient of power	-0.300 % / °C
NOCT (Tair 20°C ; Irradiance 800W/m ² ; Wind 1m/s)	45±2 °C

PACKING CONFIGURATION

Container	20'	40'
Modules Per Pallet	35pcs	35pcs
Pallets Per Container	6pallets	21pallets
Modules Per Container	210pcs	735pcs



REMARKS

- Pmax measurement tolerance : ±2.5%
- 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