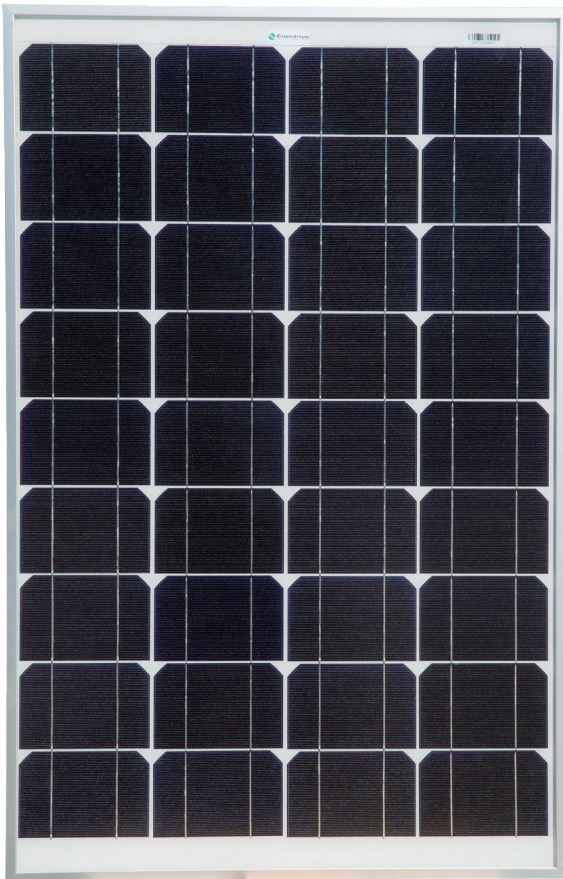


SP-EN55W
F 35mm
Mono Solar Panel

Key Features



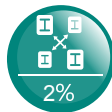
High Conversion Efficiency
 Module efficiency up to 12.10% achieved through advanced cell technology and manufacturing capabilities



Positive Tolerance
 Positive tolerance of up to -1%+~3% delivers higher output reliability



High PID Resistant
 Advanced cell technology and qualified materials lead to high PID resistant



Current Sorting Process
 System output maximised by reducing mismatch losses up to 2% with modules sorted and packaged by amperage



Extended Wind and Snow
 Load tests
 Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)



Withstanding Harsh Environment
 Reliable quality leads to a better sustainability even in harsh environments in the outdoors

Quality Guarantee

- * High efficiency solar cells, Low resistance loss and higher conversion efficiency
- * Double EL test before and after lamination, highly controls product defects
- * Solar panel classified by current, to improve system performance

Certificates

- * ISO9001:2015
- * ISO14001:2015
- * ISO45001:2018
- * CE;CQC;SGS;IN METRO;DEKRA

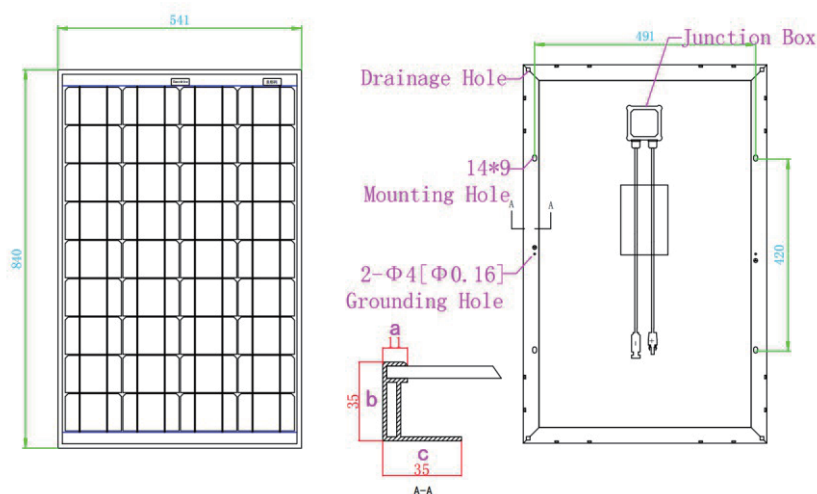


SP-EN55W F 35mm Mono Solar Panel

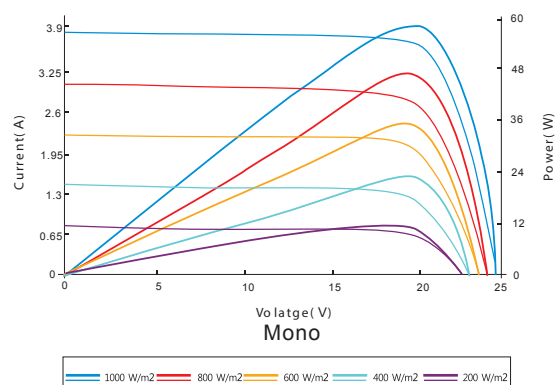
Electrical Characteristics

STC	SP-EN55W
Maximum Power(Pmax)	55W
Optimum Operating Voltage(Vmp)	18.0V
Optimum Operating Current(Imp)	3.06A
Open Circuit Voltage(Voc)	22.3V
Short Circuit Current(Isc)	3.73A
Module Efficiency	12.10%
Operating Module Temperature	40°C to +85°C
Maximum System Voltage	1000V DC (IEC)
Power Tolerance	-1%~+3%
STC	Irradiance 1000 W/m ² , module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used

Engineering Drawing



I-V Curve



Excellent performance under weak light conditions: at an irradiance intensity of 800W/m² (AM 1.5, 25°C), 95.5% or higher of the STC efficiency(1000W/m²) is achieved.

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 125mm×84mm
No. of Cells	36 (4×9)
Dimensions	840x541x35mm
Weight	5.5kg
Front Glass	3.2mm(0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip67 rated
Output Cables	TÜV (2Pfg1169:2007) 4.0 mm ² (0.006 inches ²), symmetrical lengths(-) 900mm and (+) 900 mm
Connectors	MC4 connectors

Temperature Characteristics

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.48%/°C
Temperature Coefficient of Voc	-0.34%/°C
Temperature Coefficient of Isc	0.037%/°C