

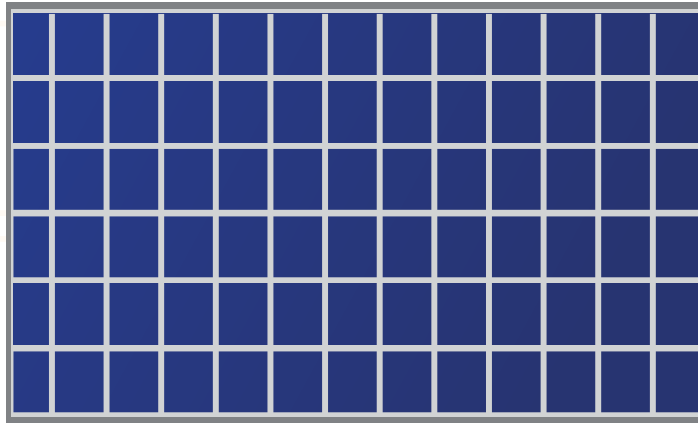
SOLAR PANEL

(530W-550W)

UPS

INVERTERS

ACCESSORIES



APPLICATION



Agricultural fields



Oil and gas fields



Hospital & testing laboratories



Factories



Lighting for road



Residential area



School park

AVR

BATTERIES

BENEFITS

- ✓ **High module conversion efficiency:**
 Module efficiency up to 21.3 % achieved through advanced cell technology and manufacturing process.
- ✓ **Suntech's current sorting process:**
 Up to 2 % power loss caused by the current mismatch could be diminished by the current sorting technique to maximize system power output.
- ✓ **Excellent weak light performance:**
 More power output in weak light conditions, such as cloudy, morning and sunset.
- ✓ **Lower operating temperature:**
 Lower operating temperature and temperature coefficient increases the power output.
- ✓ **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 better sustainability even in harsh an environment like desert, farm, and coastline.

FEATURES



Excellent module efficiency of up to 16.97%



Cell efficiency of up to 21.5%



Outstanding low-light performance

SOLAR SOLUTION

SPECIFICATION

MODEL	FA-SP-40V-550W	FA-SP-40V-545W	FA-SP-40V-540W	FA-SP-40V-535W	FA-SP-40V-530W
Maximum Power at STC (Pmax)	550W	545W	540W	535W	530W
Optimum Operating Voltage (Vmp)	42.05V	41.87	41.75V	41.57V	41.39V
Optimum Operating Current (Imp)	13.08A	13.02A	12.94A	12.87A	12.81A
Open Circuit Voltage (Voc)	49.88V	49.69V	49.54V	49.39V	49.24V
Short Circuit Current (Isc)	14.01A	13.96A	13.89A	13.83A	13.76A
Module Efficiency	21.3%	21.1%	20.9%	20.7%	20.5%
Operating Module Temperature	40 °C to +85 °C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	25 A				
Power Tolerance	0/+5 W				
MECHANICAL CHARACTERISTICS					
Solar Cell	Monocrystalline silicon 182 mm				
No. of Cells	144 (6 × 24)				
Dimensions(mm)	2279 × 1134 × 35 mm (89.7 × 44.6 × 1.4 inches)				
Weight	29.1 kgs (64.2 lbs.)				
Front Glass	3.2 mm (0.126 inches) fully tempered glass				
Frame	Anodized aluminum alloy				
Junction Box	IP68 rated (3 bypass diodes)				
Output Cables	4.0 mm ² , Portrait: (-) 350 mm and (+) 160 mm in length or customized length				
TEMPERATURE CHARACTERISTICS					
Nominal Module Operating Temperature (NMOT)	42 ± 2 °C				
Temperature Coefficient of Pmax	-0.36%/°C				
Temperature Coefficient of Voc	-0.304%/°C				
Temperature Coefficient of Isc	0.050%/°C				

UPS

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SOLAR SOLUTION

**No. 1
PTC**

High PTC rating of up to 91.55%



Junction box for long term weather endurance



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa