

# 6" Mono-Crystalline Silicon Solar Cell



"Model A"

## ☀ PHYSICAL CHARACTERISTICS

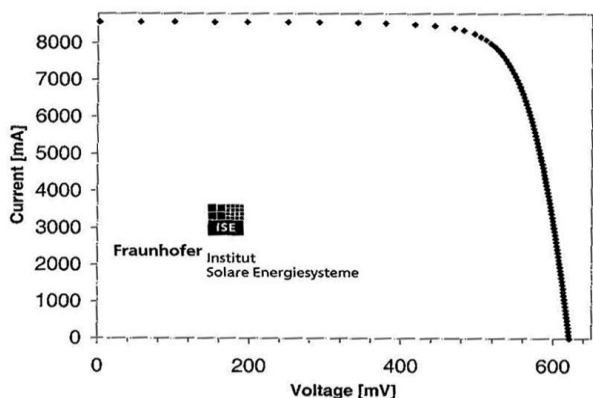
Product : Mono-Crystalline silicon solar cell  
 Dimension : 156 mm. x 156 mm. ± 0.5 mm Diagonal length 200 ± 5 mm.  
 Thickness (Si) : 220 μm. ± 30 μm. Silicon nitride anti-reflection coating  
 Front Side : 1.5 - 2.0 mm. silver busbar Full surface aluminum back surface field  
 Back Side : 4.0 mm. (silver/aluminum) continuous soldering pads 78 mm. distance between busbars

## ☀ ELECTRICAL CHARACTERISTICS UNDER STANDARD TESTING CONDITIONS (STC)

Model Code::	ES6001A	ES6002A	ES6003A	ES6004A	ES6005A	ES6006A
Color ::	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue
Visual ::	1	1	1	1	1	1
Efficiency Class ::	16.2-16.5	16.5-16.8	16.8-17.0	17.0-17.2	17.2-17.4	>17.4
Av. Eff [%]	16.35	16.65	16.90	17.10	17.30	17.50
Power [W]	3.91	3.98	4.04	4.09	4.14	4.19
J <sub>sc</sub> [mA/cm <sup>2</sup> ]	35.60	35.90	36.02	36.15	36.36	36.56
I <sub>sc</sub> [A]	8.52	8.59	8.62	8.65	8.70	8.75
V <sub>oc</sub> [mV]	612	614	615	618	619	620
I <sub>mpp</sub> [A]	7.66	7.77	7.85	7.93	8.01	8.08
V <sub>mpp</sub> [mV]	511	513	515	516	517	518
FF [%]	75.04	75.54	76.29	76.55	76.87	77.19

STC: 1000W/m<sup>2</sup>, AM1.5, 25°C (combination of electrical parameters depend on used wafer material)

## ☀ I-V CURVE



## ☀ TYPICAL TEMPERATURE COEFFICIENTS

Power : -0.43 %/K  
 Current: +2.00 mA/K  
 Voltage: -3.20 mV/K

## ☀ PACKAGING (1,000 PIECES/box)

100 pieces with safety foam are shrink-wrapped in one pack, 10 packs are filled in a protecting box

## ☀ FRONT AND BACK SIDE IMAGE

