

# 5" Mono-Crystalline Silicon Solar Cell



"Model B"

## ☀ PHYSICAL CHARACTERISTICS

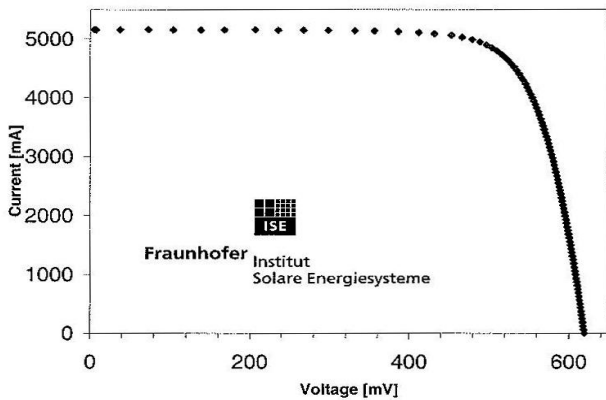
Product : Mono-Crystalline silicon solar cell  
 Dimension : 125 mm x 125 mm ± 0.5 mm Diagonal length 150 ± 1 mm  
 Thickness (Si) : 220 μm ± 30 μm Silicon nitride anti-reflection coating  
 Front Side : 1.45 mm silver busbar Full surface aluminum back surface field  
 Back Side : 4.0 mm (silver/aluminum) continuous soldering pads 61 mm distance between busbars

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

Model Code::	ES5001B	ES5002B	ES5003B	ES5004B	ES5005B	ES5006B
Color ::	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue
Visual ::	2	2	2	2	2	2
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]	2.44	2.47	2.51	2.54	2.56	2.59
J <sub>sc</sub> [mA/cm <sup>2</sup> ]	34.53	34.86	35.27	35.60	35.67	35.94
I <sub>sc</sub> [A]	5.13	5.18	5.24	5.29	5.30	5.34
V <sub>oc</sub> [mV]	615	616	617	618	620	622
I <sub>mpp</sub> [A]	4.76	4.80	4.87	4.91	4.93	4.98
V <sub>mpp</sub> [mV]	512	514	516	517	518	519
FF [%]	77.23	77.30	77.67	77.72	77.77	77.84

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 (1400 PIECES/box)

100 pieces with safety foam are shrink-wrapped in one pack, 14 packs are filled in a protecting box

## ☀ FRONT AND BACK SIDE IMAGE

