



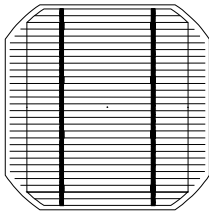
Udhaya Semiconductors Limited

An ISO 9001:2000 company

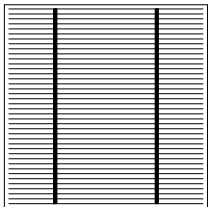
M & P Series Solar Cell

Model- USC M100PS & USC P100S

USC M100PS



USC P100S



USL manufactures high performance low-cost silicon solar cells that are designed for terrestrial applications. These solar cells have screen-printed silver front side and screen-printed silver-aluminum back side for better soldering. Textured front surface makes it possible to collect maximum sunlight and hence improved performance.

Electrical & Mechanical Specifications:

Model	USC M100PS	USC P100S
Short Circuit Current	2.6 - 2.9 A	2.6 - 2.8 A
Open Circuit Voltage	0.570 - 0.600 V	0.570 - 0.600 V
Current at Maximum Power	2.3 - 2.7 A	2.3 - 2.5 A
Voltage at Maximum Power	0.46 - 0.48 V	0.46 - 0.48 V
Fill Factor	0.65 - 0.72	0.65 - 0.72
Electric output	1.24 - 1.28 Watt	1.20 - 1.24 Watt
Cell size	100 x 100 mm ² + 1	100 x 100 mm ² + 1
Thickness	330 + 50 Mic.	330 + 50 Mic.
Cell Area (cm ²)	98.00	100.00
Type	MONO CRYSTALLINE SILICON	MULTI CRYSTALLINE SILICON
Efficiency	12%-13%	

These data represent the performance of typical modules as measured at their output terminals, and do not include the effect of such additional equipment as diodes or cables. The data are based on measurements made in accordance with ASTM E1036 corrected to SRC (Standard Reporting Conditions, also known as STC or Standard Test Conditions), which are:

- Illumination of 1kW/m² (1 sun) at spectra; distribution of AM 1.5 (ASTM E892 global spectral irradiance);
- Cell temperature of 25°C

During the stabilization process, which occurs during the first few months of deployment, module power may decrease approximately 3% from typical P_{max}