

Product specification of Solar Space P-type crystalline silicon solar cells

--Product : P15675-5BF106-JK

1. Scope

This specification is applicable to Solar Space p-type(boron doping) multi-crystalline silicon solar cells, and specified the aforesaid solar cells characteristics and application conditions.

2. Normative references

Document number	Title
IEC 60904-1 Ed.2.0	Photovoltaic devices – Part 1:measurements of photovoltaic current-voltage characteristics
IEC 60904-3 Ed.2.0	Photovoltaic devices – Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data
IEC 60904-7 Ed.3.0	Photovoltaic devices – Part 7: Computation of spectral mismatch error introduced in the testing of a photovoltaic device
IEC 61215 Ed.2.0	Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval

3. Specification

3.1 Cell structure

Cell Structure see Table 1.

Tab 1 Cell Structure

Substrate material	P-type multi-crystalline silicon wafer
Cell thickness	200 μ m \pm 20 μ m, 180 μ m \pm 20 μ m
Dimension	156.75 \pm 0.25mm
Diagonal	220.2mm \pm 0.5mm
Front(-)	Acid textured surface, blue silicon nitride AR coating
	Silver busbars for the front electrodes
Back(+)	Aluminum back-surface field
	Silver soldering pads for the backside electrodes

Front silver pastes : Samsung Series 8730x, Heraeus SOL964x.

Aluminum pastes : Rutech RX8252x, Hoyi Series HY-16xx.

Back silver pastes : Sun technology Series U-8820x, Rutech RX61041x

3.2 Printing pattern and Electric characteristics

Electrical Data

3.5 Anti-PID

Potential Induced Degradation(-1000V, 96Hrs):<5%

4. Labeling, Packaging, Storage

4.1 Labeling

Internal box unit and outside package have to be labeled with the following data: cell type, cell class, efficiency, power, amount, color class, barcode and other related information.

Sign including breakable, upward, stack number limit, avoid wet and Solar space logo are printed on the outside package.

4.2 Packaging

Solar cells are closely packed in cardboard box and heat shrink , air cushion is used around the box unit, to be suitable for long-distance delivery.



4.3 Storage

After packaging, cells should be stored indoors in the conditions of good ventilation, dry, humidity below 60%, and temperature $\leq 40^{\circ}\text{C}$. Cells should be sampling inspected again if the storage time over 45 days.