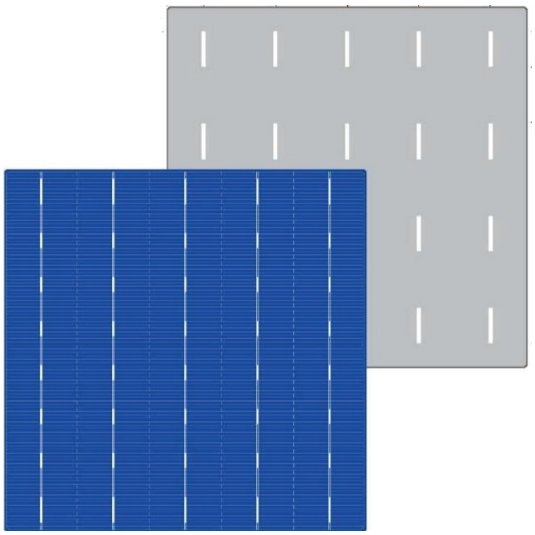
IREX
a member of SolarBK

IR - P157 - 5BB
POLYCRYSTALLINE SILICON

SOLAR CELLS
5BB

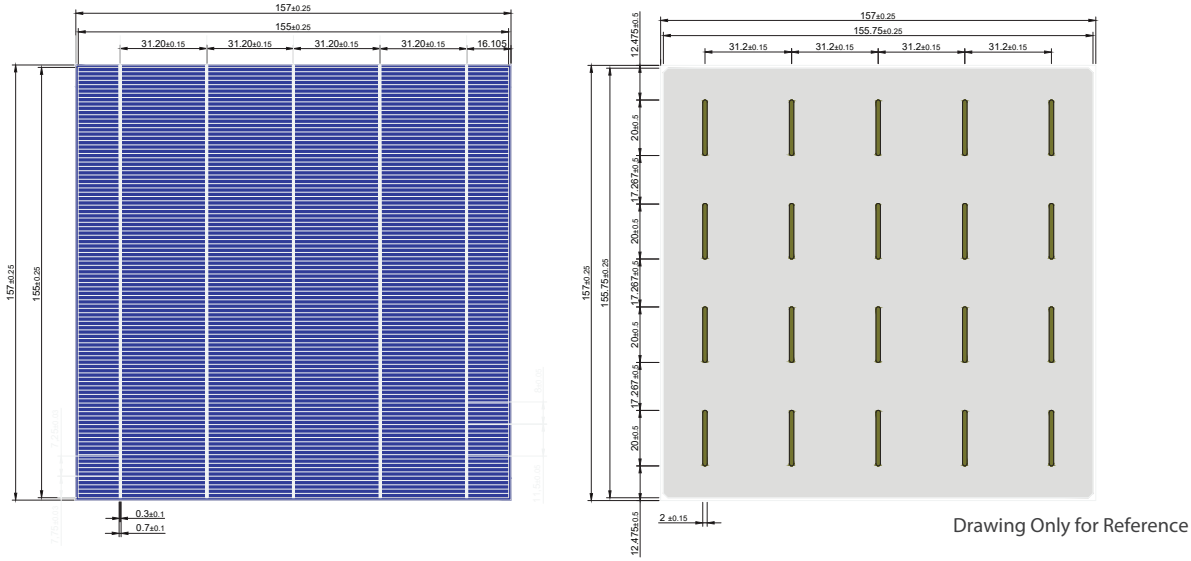


FEATURES

- High Cell-to-module ratio through precise cell conversion efficiency sorting, classified efficiency grade by both minimum power and current.
- Excellent electrical long-term stability and reliability by using of best raw materials and through strict quality inspection control.
- Low breakage rate by using high qualified and stable wafers.
- High quality homogeneous appearance by sorting into defined color classes.
- 100% screened for reverse current and shunt resistance.
- Excellent solderability through high quality conductive materials and regular monitor soldering properties.

PRODUCTION AND QUALITY CONTROL

- Regular calibration of test equipment using Fraunhofer ISE reference cell.
- Environmental friendly due to REACH-SVHC and RoHS compliances.
- Professional on-site service and support for module certification.
- Regular light source AAA class calibration for stable conversion efficiency.
- Lowest LID by periodic monitoring and superior wafer incoming control.



Drawing Only for Reference

MECHANICAL DATA AND DESIGN

Format	157 mm × 157 mm ± 0.25 mm
Thickness	200 ± 20μm
Front (-)	0.7 mm busbars (silver), dark blue/ blue/ sky blue, anti-reflecting coating (silicon nitride)
Back (+)	2.0 mm wide soldering pads (silver) back surface field (aluminum)

PACKING INFORMATION

Container	20' GP	40' GP
Pallets Per Container	14	28
Pieces per Container	224000	448000

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www. irex.vn

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ELECTRICAL CHARACTERISTIC

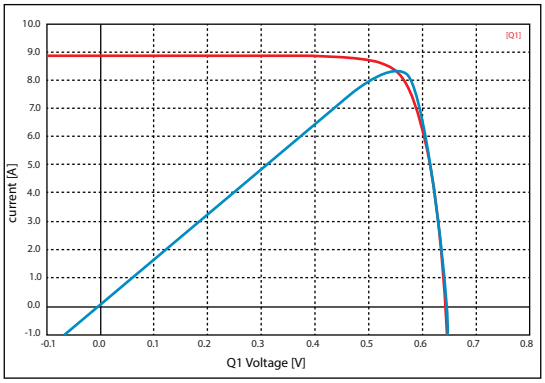
No.	Efficiency (%)	Pmpp (W)	Umpp (V)	Impp (A)	Uoc (V)	Isc (A)	FF (%)
01	19.20	4.72	0.550	8.575	0.649	9.114	79.73
02	19.00	4.67	0.546	8.554	0.645	9.088	79.68
03	18.80	4.62	0.543	8.501	0.642	9.033	79.60
04	18.60	4.57	0.540	8.461	0.639	8.985	79.58
05	18.40	4.52	0.537	8.421	0.635	8.936	79.69
06	18.20	4.47	0.533	8.397	0.626	8.923	80.12

STANDARD TEST CONDITIONS (STC)	
Light intensity	1000 W/m ^{2}
Spectrum	AM1.5
Temperature	25°C

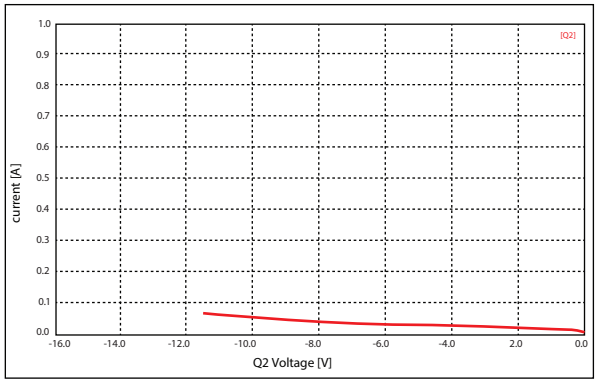
TEMPERATURE COEFFICENTS	
α (Isc)	+0.033%/K
β (Voc)	-0.334%/K
γ (Pmpp)	-0.425%/K

PERFORMANCE

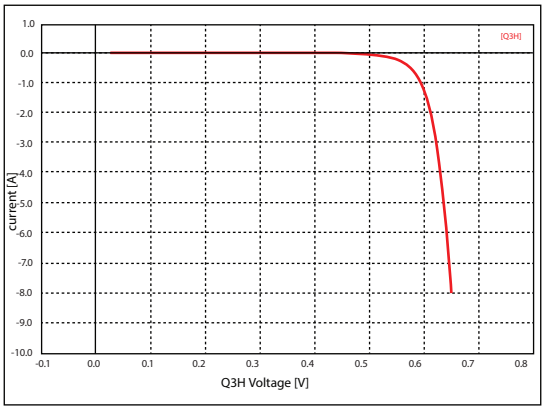
[Q1] Forward voltage with light



[Q2] Reverse voltage in dark



[Q3H] Forward voltage in dark (Rser)



[Q3L] Forward voltage in dark (Rshunt)