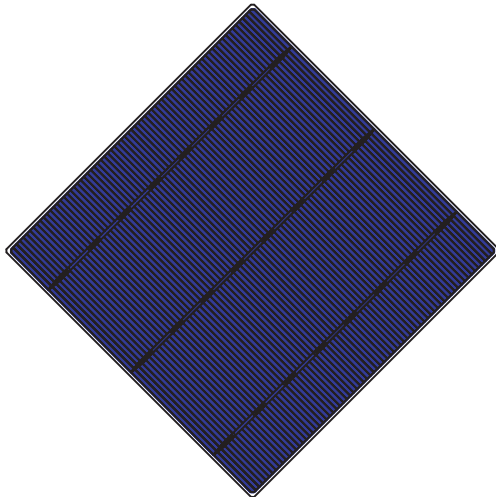


156mm* 156mm
GPPV poly-crystalline silicon cell

GP156P



Dimension: 156mm×156mm±0.5mm

Thickness (Si): 200um±20um;

Front: Blue silicon nitride antireflective coating 3*1.5mm silver busbar;

Back: Full-surface aluminum back-surface field 3*2.8mm silver soldering pads.

High photoelectric transformation efficiency, high reliability, low weaken, long life;

Advanced PECVD Technology make the dark blue film better distributed;

High quality silver paste results in solar cell contacts of high strength and low series resistance;

Each PV cell is inspected and checked for current reversion, micro cracks, chipping, warping, and any uneven thickness;

Gppv's inspected and checked cells are individually tested and

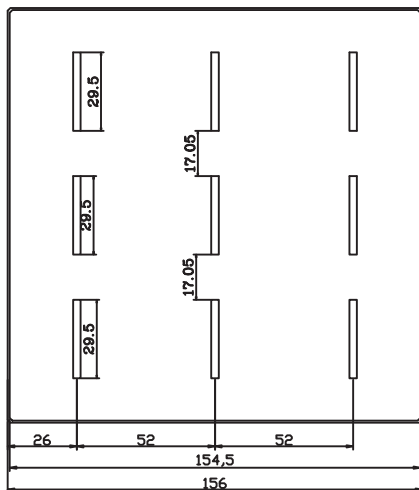
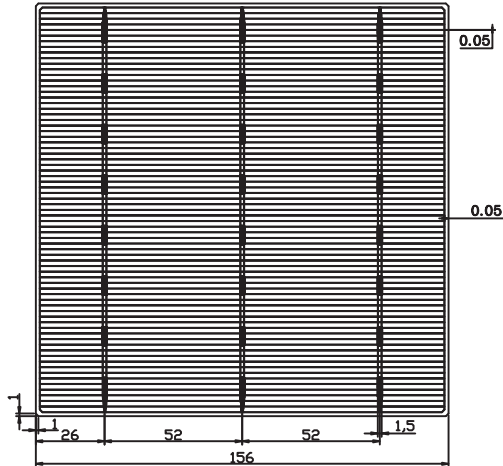
grouped into over 24 performance classes within a tight 2% test accuracy.

| Efficiency(%) | Pmpp(W) | Umpp(V) | Impp(A) | Voc(V) | Isc(A) | FF(%) |
|---------------|---------|---------|---------|--------|--------|-------|
| 18.20 | 4.428 | 0.535 | 8.276 | 0.633 | 8.855 | 79.00 |
| 18.00 | 4.380 | 0.533 | 8.218 | 0.631 | 8.787 | 79.00 |
| 17.80 | 4.331 | 0.531 | 8.156 | 0.629 | 8.738 | 78.80 |
| 17.60 | 4.283 | 0.529 | 8.096 | 0.627 | 8.691 | 78.60 |
| 17.40 | 4.234 | 0.527 | 8.034 | 0.625 | 8.641 | 78.40 |
| 17.20 | 4.186 | 0.525 | 7.973 | 0.623 | 8.592 | 78.20 |
| 17.00 | 4.137 | 0.523 | 7.910 | 0.621 | 8.541 | 78.00 |
| 16.80 | 4.088 | 0.521 | 7.846 | 0.619 | 8.489 | 77.80 |
| 16.60 | 4.040 | 0.519 | 7.784 | 0.617 | 8.438 | 77.60 |
| 16.40 | 3.991 | 0.517 | 7.720 | 0.615 | 8.384 | 77.40 |
| 16.20 | 3.942 | 0.515 | 7.654 | 0.613 | 8.330 | 77.20 |
| 16.00 | 3.894 | 0.513 | 7.591 | 0.611 | 8.277 | 77.00 |

Data under standard testing conditions(STC):1000W/m², AM1.5, 25°C

156mm* 156mm
GPPV poly-crystalline silicon cell

GP156P



Temperature Coefficients

| | | |
|---------------------------------|-------------------|-----------|
| Current temperature coefficient | $\alpha(I_{sc})$ | 0.049%/k |
| Voltage temperature coefficient | $\beta(V_{oc})$ | -0.334%/k |
| Power temperature coefficient | $\gamma(P_{max})$ | -0.449%/k |

standard testing conditions:AM1.5,1000W/m², 25°C.

Solder Ability

| Side | Peel strength |
|--------------------|---------------|
| Front Side Average | >2.0N/mm |
| Back Side Average | >2.0N/mm |
| Minimum | >1.5N/mm |

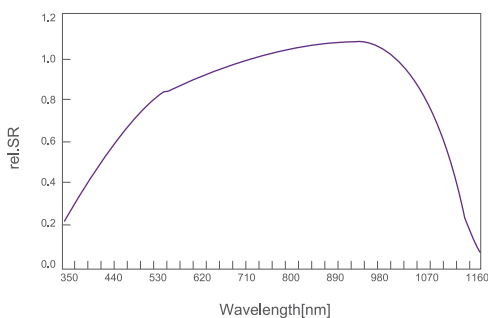
Ribbon width 1.6mm,solder at 300–400°C with no clean flux.

Light Intensity Dependence

| Intensity W/m ² | V _{pm} | I _{pm} |
|----------------------------|-----------------|-----------------|
| 1000 | 1 | 1 |
| 800 | 0.986 | 0.80 |
| 600 | 0.974 | 0.60 |
| 500 | 0.967 | 0.50 |
| 400 | 0.959 | 0.40 |
| 200 | 0.932 | 0.20 |
| 100 | 0.905 | 0.10 |

V_{pm}=Maximum Power Voltage
I_{pm}=Maximum Power Current

Spectral Response



IV-Curve

