

# **Y182MPE**

# **182 Monocrystalline Bifacial Solar Cell**



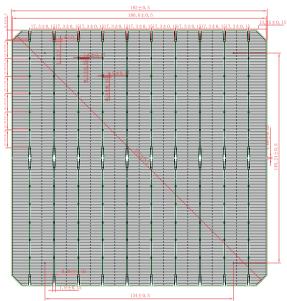
#### **Electrical Performance**

Grade	Unit	23.30	23.20	23.10	23.00	22.90	22.80	22.70	22.60	22.50	22.40	22.30	22.20
Voc	V	0.689	0.688	0.687	0.686	0.685	0.684	0.683	0.682	0.681	0.680	0.679	0.678
lsc	А	13.654	13.623	13.592	13.563	13.534	13.503	13.478	13.453	13.428	13.403	13.381	13.359
Vmpp	V	0.599	0.598	0.597	0.596	0.595	0.594	0.593	0.592	0.591	0.590	0.589	0.588
Impp	А	12.843	12.808	12.774	12.741	12.706	12.672	12.638	12.604	12.569	12.534	12.500	12.465
Pmpp	W	7.69	7.66	7.63	7.59	7.56	7.53	7.49	7.46	7.43	7.40	7.36	7.33

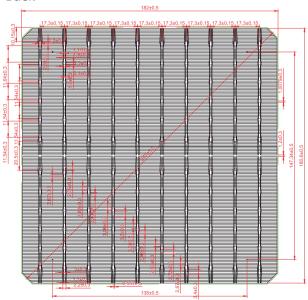
Standard Test Conditions: 1000W/m2, AM1.5,25 °C

### **Product Appearance**

#### Front



#### Back



# **Temperature Coefficient**

TkPower	-(0.39±0.02) %/k
TkVoltage	-(0.33±0.03) %/k
TkCurrent	+(0.06±0.015) %/k

# **Physical Charaacteristics**

Substrate material	P-type mono-crystalline silicon wafer-PERC					
Cell thickness	160µm±16µm					
Dimension	182mm*182mm±0.5mm					
Diagonal	247mm±0.5mm					
Front(-)	10*0.08mm±0.03mm bus bars (silver) 168 lines, Silicon oxide + bule silicon nitride compound anti reflection coating(PID Free)					
Back(+)	1.2±0.3mm wide soldering pads (silver), Aluminum oxide and Aluminum lines back-surface field, Laser design of vertical bus bars					

# **Light induced degradation test**

Using Xenon lamp (Irradiance of 1000W/m2,with spectrum AM 1.5) to irradiate test cells, after a total irradiation of 5 kwh/m2 ,the degradation of maximum output power of cells is  $\leq\!2\%$ 

#### **CTM**

Lower cell to module(CTM) power loss: <3%

#### **Anti-PID**

Potential Induced Degradation(-1500V,192h):<5%

# **Packaging, Storage**

Solar cells are closely packed with soft sponge around and heat shrink is used around the box unit. Outer packing box must have shock buffer, to be suitable for long-distance delivery.

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