







M18216BTP10

182 Monocrystalline Bifacial TOPCon Solar Cell

-  Low reflection of uniform fine texturing structure
-  Selective emitter
-  In situ doped ultra-thin poly-Si
-  Low decay



efficiency of testing production

25.3%~25.7%

Electrical Performance

Grade	Unit	25.20	25.10	25.00	24.90	24.80	24.70	24.60	24.50	24.40
Voc	V	0.726	0.725	0.724	0.723	0.722	0.721	0.720	0.719	0.718
Isc	A	13.731	13.707	13.699	13.666	13.622	13.581	13.548	13.516	13.481
Vmpp	V	0.624	0.623	0.622	0.621	0.620	0.619	0.618	0.617	0.616
Imp	A	13.333	13.311	13.305	13.267	13.223	13.180	13.147	13.112	13.068
Pmpp	W	8.32	8.29	8.25	8.22	8.19	8.15	8.12	8.09	8.05

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

Temperature Coefficient

TkPower $-(0.33 \pm 0.02) \%/k$

TkVoltage $-(0.27 \pm 0.03) \%/k$

TkCurrent $+(0.045 \pm 0.015) \%/k$

Physical Characteristics

Substrate material	N-type mono-crystalline silicon wafer-TOPCon
Cell thickness	130 μ m \pm 13 μ m
Dimension	182mm*182mm \pm 0.5mm
Diagonal	247mm \pm 0.5mm
Front	16*0.036mm \pm 0.02mm bus bars (silver) , Silicon oxide + blue silicon nitride compound anti-reflection coating (PID Free)
Back	16*0.036mm \pm 0.02mm bus bars (silver) , Blue silicon nitride compound anti-reflection coating

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 $\leq 2\%$

Anti-PID

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

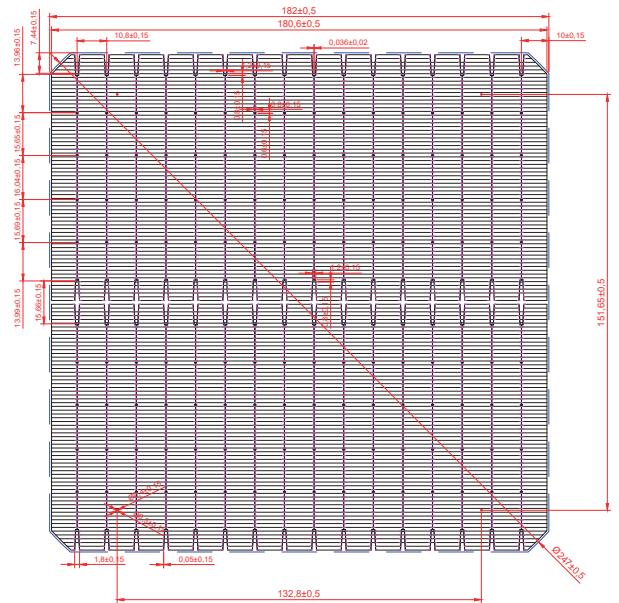
Packaging, Storage

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 humidity below 60%, and temperature (20 \pm 10) °C . Cells should be sampling inspected again if the storage time over 90 days.

Product Appearance

Front



Back

