



Silicon Crystal & Compound Semiconductor

☛ Solar Silicon Wafer

Solar Silicon Wafer is normally used for the production of solar cells, panels or PV systems. By providing a high electrical efficiency, it has been proven to be a dominant energy source in Photovoltaic industry. 125x125mm, 156x156mm and 166x166mm are available.



No.	Items	Standard Specifications			
1	Shape of Wafer	Quasi-squared	Quasi-squared	Quasi-squared	
2	Diagonal Length	mm	156±0.5	200±0.5	231.7±0.3
3	Square Side Length	mm	125x125 ±0.5	156x156 ±0.5	166x166 ±0.2
4	Growth Method		CZ	CZ	CZ
5	Conductivity Type		P/N	P/N	P/N
6	Orientation		<100> <111>	<100> <111>	<100> <111>
7	Thickness	μm	(180-240)±20	(180-240)±20	(180-240)±20
8	Resistivity	Ω·cm	0.01-0.02, 0.5-3.0, 3.0-6.0 or as required		
9	TTV	μm max	30	30	30
10	Bow/Warp	μm max	30	30	30
11	Carrier Lifetime	μs min	10	10	10
12	Dislocation	cm ⁻²	≤3000	≤3000	Free
13	Surface Quality	No scratch, cracks and pinholes visible with naked eyes. No dirt, oil stain, no remains of soap or glue.			
14	Packing	Cassette inside, carton box outside			

☛ Solar Silicon Ingot

Solar Silicon Ingot is of single crystal (mono crystalline) silicon structure. Wafer fabricated from the ingot can serve as a light-absorbing material and energy conversion channel in Photovoltaic industry, by forming solar cells, panels or PV systems. Circular shape 150, 200, 235mm diameter or quasi-squared shape of square side length 125, 156, 166mm can be supplied.



No.	Items	Standard Specifications		
1	Shape of Ingot	Quasi-Squared	Cylinder	
2	Diagonal Length	mm	150, 200, 235	150, 200, 235
3	Square Side Length	mm	125, 156, 166	-
4	Square Side Angle		90±0.3°	-
5	Length of Ingot	mm	150-500	150-500
6	Growth Method		CZ	CZ
7	Conductivity		P/N	P/N
8	Orientation		<100>	<100>
9	Resistivity	Ω·cm	0.01-0.02, 0.5-3.0, 2.0-4.0, 3.0-6.0	
10	Carrier Lifetime	μs min	10	10
11	Surface Quality	No scratch, cracks and pinholes visible with naked eyes. No dirt, oil stain, no remains of soap or glue.		
12	Packing	Plastic bag inside, carton box outside		