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Safefound technology

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SOLAR-PROJECT BRANCH

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## Mono Solar Wafer Specification 125 X 125

Code	Item	specification
1	Material	Metallization solar grade silicon
2	Growing Method	CZ
3	Type	P
4	Crystal Orientation	$\langle 100 \rangle \pm 2^\circ$
5	Resistivity ( $\Omega \cdot \text{cm}$ )	I: 0.1~3
6	Oxygen Content	$\leq 1.0 \times 10^{18}$ atoms/cm <sup>3</sup>
7	Carbon Content	$\leq 5.0 \times 10^{17}$ atoms/cm <sup>3</sup>
8	lifetime	$\geq 1.5 \mu \text{ s}$
9	Etch Pit Defects	$\leq 3000/\text{cm}^2$
10	Dimension	wafer thickness & thickness variation (TV) $200 \pm 20 \mu \text{ m}$ ; wafer side length & side length tolerant variation $125 \pm 0.5 \text{ mm}$
		diagonal (diameter) & diagonal (diameter) variation $150 \pm 0.5 \text{ mm}$
		angularity $\leq 50 \mu \text{ m}$
		total thickness variation(TTV): $< 30 \mu \text{ m}$
11	Surface quality	surface gaps width $\leq 0.5 \text{ mm}$ , surface gaps' quantity per pc $\leq 2\text{C}$ , surface gaps range less than 3mm
		no cracks, no holes, "V" shape gaps are not allowed
		surface damage layer(saw traces) $\leq 15 \mu \text{ m}$ , the handle is not marked
		Clean and free from staining, free from scratches and cracks.
Sample	MOQ	One box, 2400pcs.

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