	TECHNICAL SPECIFICATION  Poly-Crystalline Solar Cell		Code	ND9A30	0012A1B462		
TI Limited			Used in		odule (125 W) car-cesis		
nited It mus	Parameter	į	Specification				
	Solar Cell	Multi	Multi Crystalline Silicon Solar Cell				
Lin By	Dimension	157 n	157 mm X 157 mm ± 0.25 mm				
ITI	Thickness	Over	Over all cell 200μm ± 20μm				
Disclaimer (COPY RFIGHT AND COFIDENTIAL) The information in this document is the property of ITI Limited It must not be used directly or indirectly in any way detrimental to the interest of the company	Colour	Light	Light Blue/ Blue/ Dark Blue/ Indigo				
	Anti-reflection coating	Anti-	Anti-reflecting coating (Silicon Nitride) ( PID Free)				
	Front Contact (-ve)		5 nos., 0.7 mm +/- 0.1 mm wide Silver Bus Bar (Continuous or discrete)				
	Back Contacts (+ve)		5 nos., 1.9 mm +/- 0.1 mm wide Silver Bus Bars with Aluminium back surface field (continuous or discrete)				
	Bus Bar Distance	31.2:	31.2 mm± 0.2 mm				
	Solderability		Good solderability of cell front & back contacts with Copper Ribbon of Sn:Pb (60:40)				
	Cell Efficiency at STC	18.20	18.20% (Typical)				
	Cell Power (P <sub>m</sub> ) at STC	Minir	Minimum 4.62 W <sub>p</sub> (Tolerance-0%, +2%)				
	Short Ckt Current, Isc	57 U - 17 (AS)	8.85 A (Typical)				
	Current at MPP ( Imp)	Better	Better than 8.30 A				
	Open Ckt Voltage, Voc	0.636	0.636 V (Typical)				
	Voltage at MPP(V <sub>mp</sub> )	0.544	0.544 V (Typical)				
	Fill Factor	80 %(	80 %( Typical)				
		l <sub>SC</sub> (.	I <sub>SC</sub> (Alpha): 0.04%/K or better				
	Temperature Coefficient	V <sub>oc</sub> (	V <sub>OC</sub> (Beta): -0.32%/K or better				
			P <sub>mpp</sub> (Gama <sub>3</sub> : -0.39%/K or better				
	All cells shall be free from following visual defects-  1. Edge Chipping, Edge Broken.  2. Micro Cracks, Pin Holes.  3. Discontinuity of metal printing lines.  4. Any spot, spillage or spear of paste.  5. Colour variation of ARC.  6. Non uniform printing or spreading of fine lines.						
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eeked By	Ham CMIT	CM (TS, QA & QS)		Date	25.06.2022		
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ITI Limited	TECHNICAL SPECIFICATION	Code	ND9A30012A1B462						
	Poly-Crystalline Solar Cell		Used in	SPV M	odule (125 W)				
d It must	General Requirements  1. Point wise Compliance statement of the Technical Specification including general terms and condition along with complete catalogue must be attached with the technical bid.  2. Specify OEM details and Part no. of the offered product (not other product).								
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Disclaimer (COPY RFIGHT AND COFIDENTIAL) The information in this document is the property of ITI Limited It must not be used directly or indirectly in any way detrimental to the interest of the company	3. Vendor to furnish customer references.								
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Prepared By	Pradeep Sluth	AEE (TS)	ž.	Rev Issue	0				
Checked By	Aan -	CM (TS, QA & QS)	8	Date	25.06.2022				
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