

TECHNICAL SPECIFICATION

Poly-Crystalline Solar Cell

Code

ND9A30012A1B462

Used in

SPV Module (120 W & 125 W)

(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 Disclaimer

Parameter	Specification			
Solar Cell	Multi Crystalline Silicon Solar Cell			
Dimension	157 mm X 157 mm ± 0.25 mm			
Thickness	Over all cell 200μm ± 20μm			
Colour	Light Blue/ Blue/ Dark Blue/ Indigo			
Anti-reflection coating	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 mm± 0.2 mm			
Solderability	Good solderability of cell front & back contacts with Copp Ribbon of Sn:Pb (60:40)			
Cell Efficiency at STC	18.80% (Typical)			
Cell Power (Pm) at STC	Minimum 4.62 W _p (Tolerance-0%, +2%)			
Short Ckt Current, Isc	8.85 A (Typical)			
Current at MPP (I _{mp})	Better than 8.30 A			
Open Ckt Voltage, Voc	0.636 V (Typical)			
Voltage at MPP(V _{mp})	0.544 V (Typical)			
Fill Factor	80 %(Typical)			
	I _{SC} (Alpha): 0.04%/K or better			
Temperature Coefficient	Voc (Beta): -0.32%/K or better			
	P _{mpp} (Gama ₎ : -0.39%/K or better			

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.
- Non uniform printing or spreading of fine lines.

Prepared By	Pradect Sugh	AM(TS)	Rev	1
-	1		Issue	1
Checked By	Marie	CM (TS, MKT & SB)	Date	22.05.2023
Approved By	J.S. Origgins	DGM (W, IMM, EDP & Shipping)	Page	1/2

ITI Limi	ited		AL SPECIFICATION systalline Solar Cell	Code	ND	09A30012A1B462
				Used in	SPV Mo	odule (120 W & 125
imited It must		1. Point w	ise Commit	ral Requirement	s	
of ITI]		uic technica	hid	Proce can	alogue milis	The attached will
erty of		3. Vendor to	EM details and Part no. furnish customer referen	of the offered pro-	duct (not ot	her product).
le pro			THE STATE OF THE S			May 1
ıt is the inte						
umen to th				,		
s doc rental						
mer in thi letrin						
isclai ation way						
D nform						
The in			· Born A		ě	
IAL) indire						
ENT ly or	-					
OFIL		100				
VD C used	-					1 4 5
						1 11
HT All						
RFIGHT AND COFIDENTIAL) The information in this document is the property of ITI Linnot be used directly or indirectly in any way detrimental to the interest of the company	0					
OPY RFIGHT All not be						
(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						
		et Singly	A. Committee			
ecked By		et Bingh	AM(TS)		Rev	1
epared By		m.	AM(TS) CM (TS, MKT & SI	3)	Rev Issue	1 1 22.05.2023

PRE-CONTRACT INTEGRITY PACT

GENERAL

This pre-bid pre-contract agreement (hereinafter called the Integrity Pact) is made on day of the month of , between, ITI
Limited, Naini Plant, Mirzapur Road Naini, Allahabad-211010, Uttar
Pradesh, India, (hereinafter called the "BUYER", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and
(hereinafter called the "BIDDER" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership company (strike off whichever is not applicable), constituted in accordance with the relevant law in the matter and the BUYER is a PSU under the Department of Telecommunications, Ministry of Communications & IT, Government of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enable the BUYER to select a firm for supply, installation, integration and commissioning (strik off whichever is not applicable) at its premises as per the specification in the attachments (name of the product) through the tender in a transparent and corruption free manner, and