

Factory Witness

Characterization

Light-Induced Degradation

CID

LID

Characterization

Thermal Cycling	Damp Heat	Mechanical Stress Sequence	Potential-Induced Degradation	UVID Sensitivity	LETID Sensitivity	Hail Stress Sequence	PAN File & IAM Profile	Field Exposure	Backsheet Durability Sequence
TC 200	DH 1000	SML (tracker or corner-mount)	85°C, 85%RH MSV (+ and/or -) 192 hrs	UV 60 kWh/m ² 60°C front	LETID 162 hrs 75°C, 2*(Isc-Imp)	Hail (two sizes)	PAN File	Field Exposure 6 Months	DH 200
Characterization	Characterization					Characterization	IAM Profile		Characterization
TC 200	DH 1000	DML1000	Characterization	Characterization	Characterization	DML1000		Characterization	UV 65 kWh/m ² 80°C rear
Characterization	Characterization	Characterization		UV 60 kWh/m ² 60°C front	LETID 162 hrs 75°C, 2*(Isc-Imp)	Characterization		Field Exposure 6 Months	Characterization
TC 200		TC 50 + HF 10				TC 50 + HF 10		Characterization	TC 50 + HF 10
Characterization		Characterization		Characterization	Characterization	Characterization		Characterization	Characterization
						OPTIONAL			UV 65 kWh/m ²
									Characterization
									TC 50 + HF 10
									UV 65 kWh/m ²
									Characterization
									TC 50 + HF 10
									UV 6.5 kWh/m ²
									Characterization

Factory Witness

All Bills of Materials submitted for testing are witnessed in production from opening of raw materials packages through every step of the production process to final packaging with tamper-proof tape.

Testing Abbreviations

TC: Thermal cycling
 DH: Damp heat
 UV: Ultraviolet
 HF: Humidity freeze
 LETID: Light and elevated temperature-induced degradation
 IAM: Incidence angle modifier
 PAN File: PVSyst .pan file
 MSV: Maximum system voltage
 UVID: Ultraviolet induced degradation
 SML: Static mechanical load
 DML: Dynamic mechanical load
 CID: Current induced degradation

Characterizations

IV: Flash test at STC
 EL: EL image at Isc
 LIC: Flash test at 200W/m²
 LCEL: EL image at 1/10*Isc
 VI: Visual inspection
 WL: Wet leakage
 Diode: Diode test
 Color: Backsheet color measurement

Note: Not all measurements are taken at each step