

# STI44MP

144x6" / 535-555 W MONOKRISTAL PERC PANEL  
144x6" / 535-555 W MONOCRISTALLINE PERC PANEL

**SOLENTAD**  
SOLAR ENERGY

## Management System Kalite Yönetim Sistemi

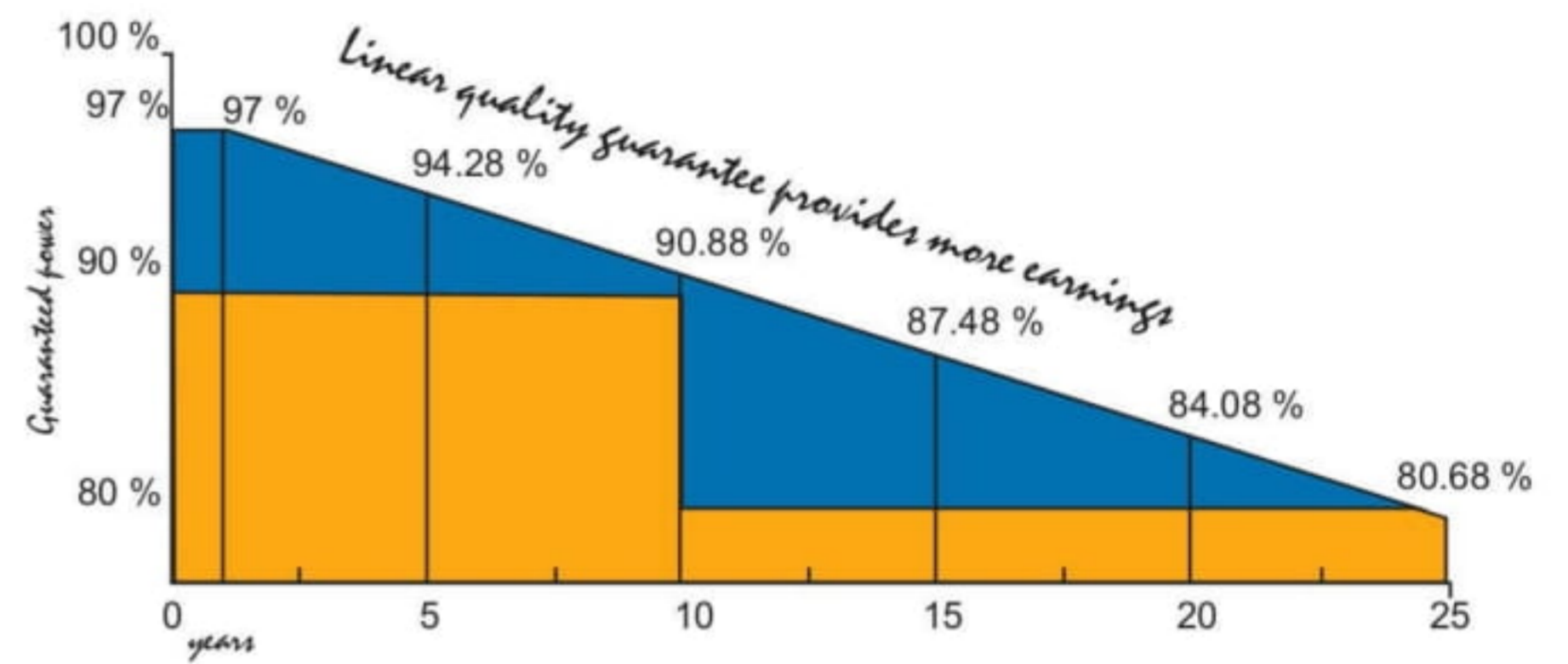


ISO 9001 : Quality Management System  
ISO 14001 : Environmental Management System Standard  
OHSAS 18001 : International Occupational Health and Safety Assessment System Standard  
ISO 10002-2004: Customer Satisfaction Management System

## Product Certification Ürün Sertifika Standartları



IEC 61215 (New Edition) 1500 VDC  
IEC 61730 (New Edition)  
IEC 61701 (Salt Mist Corrosion)  
IEC 62716 (Ammonia Corrosion)  
IEC 62804 (Potential Induced Degradation)



Product Quality & Process Guarantee



Linear Power Guarantee



## Structural Characteristics

Module dimensions	2279 x 1134 x 35 mm
Weight	27.1 kg
Cell	Monocrystal Half Cut Cell 182x91mm(144 Cells)
Glass	3.2 mm AR tempered glass, low iron
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Wire	4.0 mm <sup>2</sup> , wire length: 300 mm
Connector	MC4 Connector
Mechanical Load	5400 Pa



Specifications are subject to change without prior notice

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## Electric Characteristics (STC)

Model Of Modules	535-144M	540-144M	545-144M	550-144M	555-144M
Maximum power - $P_{max}$ (W)	535	540	545	550	555
Open-Circuit Voltage - $V_{oc}$ (V)	48.98	49.27	49.56	49.85	50.14
Short-Circuit Current - $I_{sc}$ (A)	13.81	13.87	13.93	13.99	14.05
Maximum Power Voltage - $V_{mp}$ (V)	41.70	41.86	42.02	42.18	42.33
Maximum Power Current - $I_{mp}$ (A)	12.83	12.90	12.97	13.04	13.11
Module Efficiency - $\eta_m$ (%)	20.7	20.9	21.1	21.3	21.5

STC: Irradiance 1000 W/m<sup>2</sup>, 25°C, AM 1.5

Power Tolerance (W)	(0,+5)
Maximum system voltage (V)	1500 V
Maximum rated fuse current (A)	25

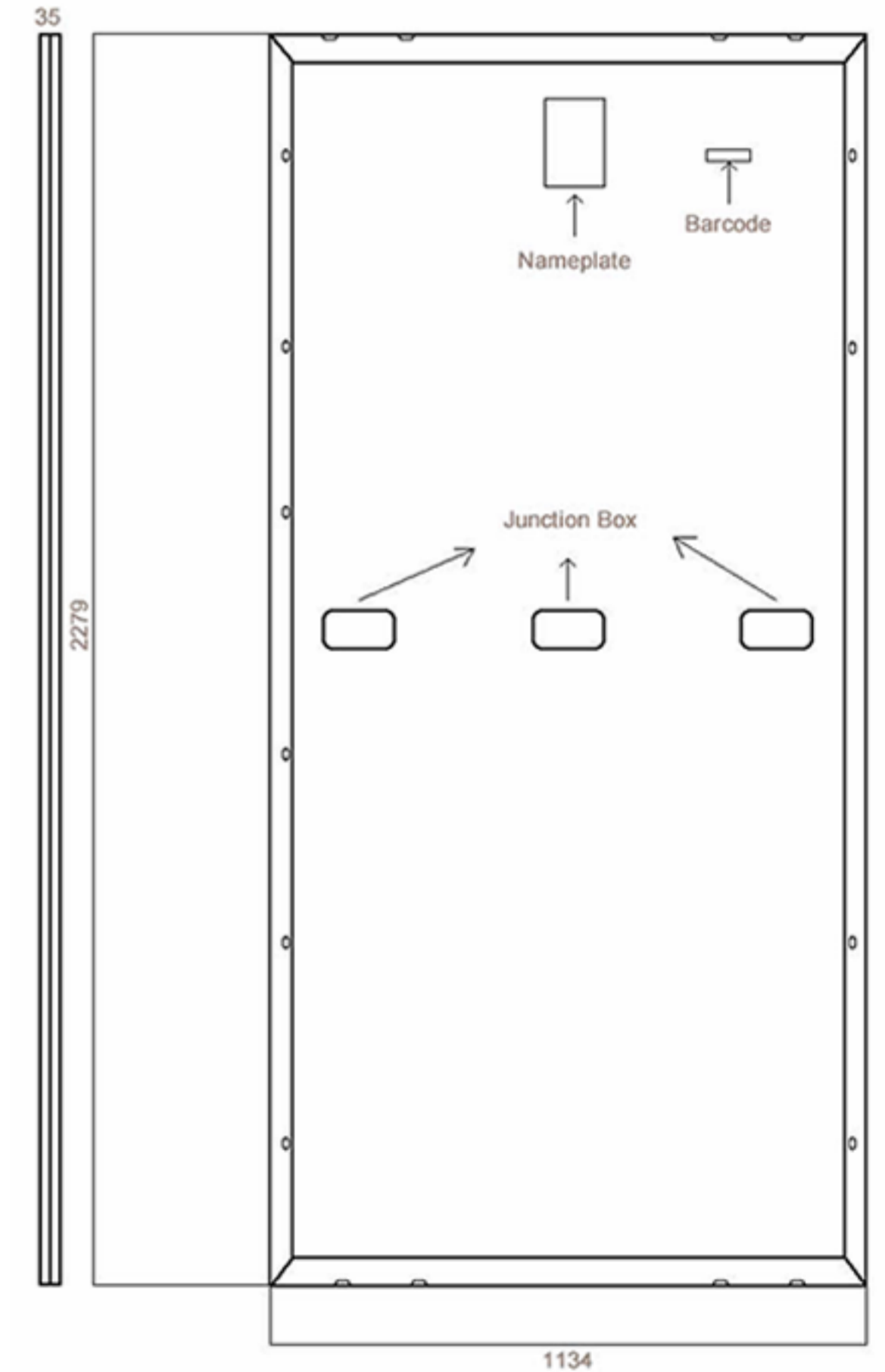
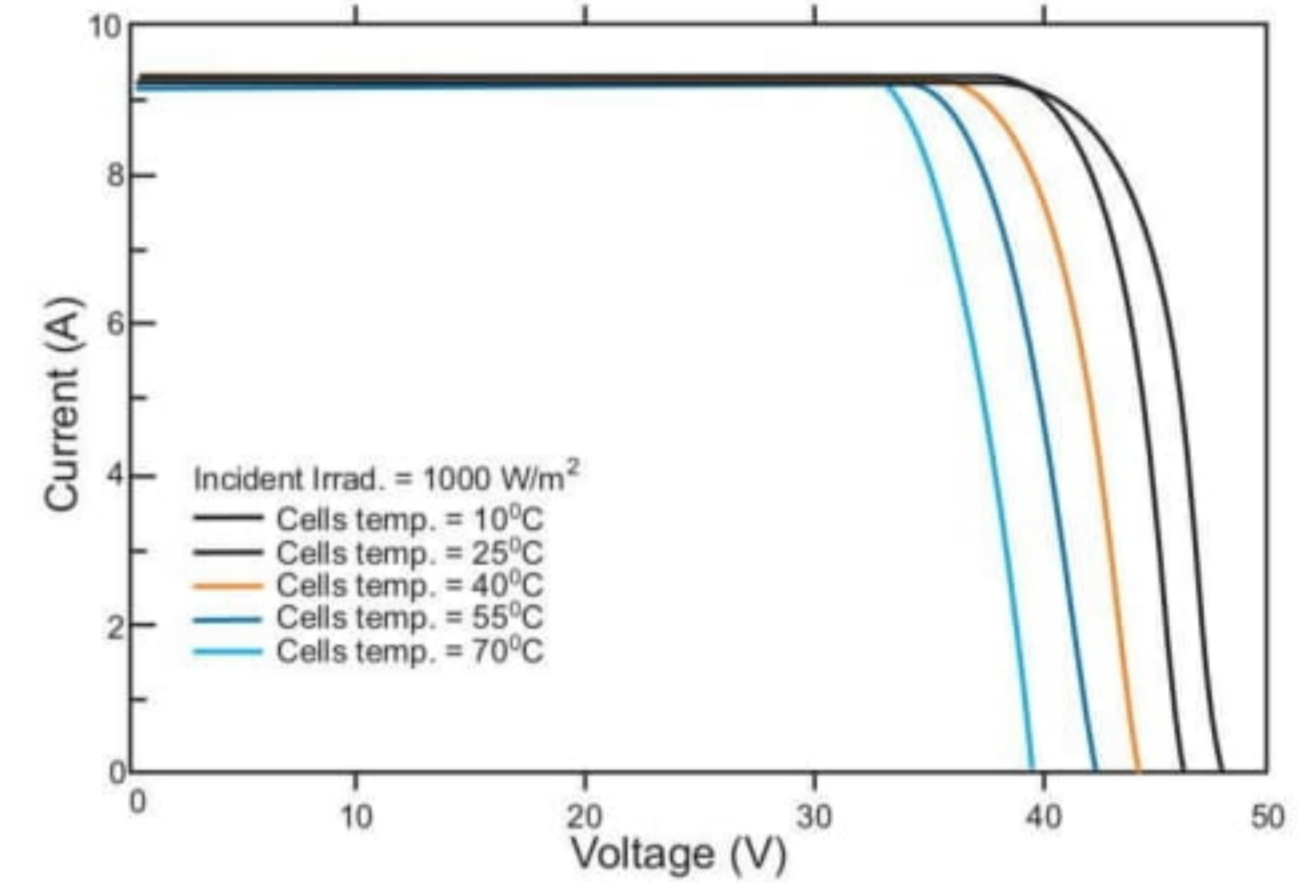
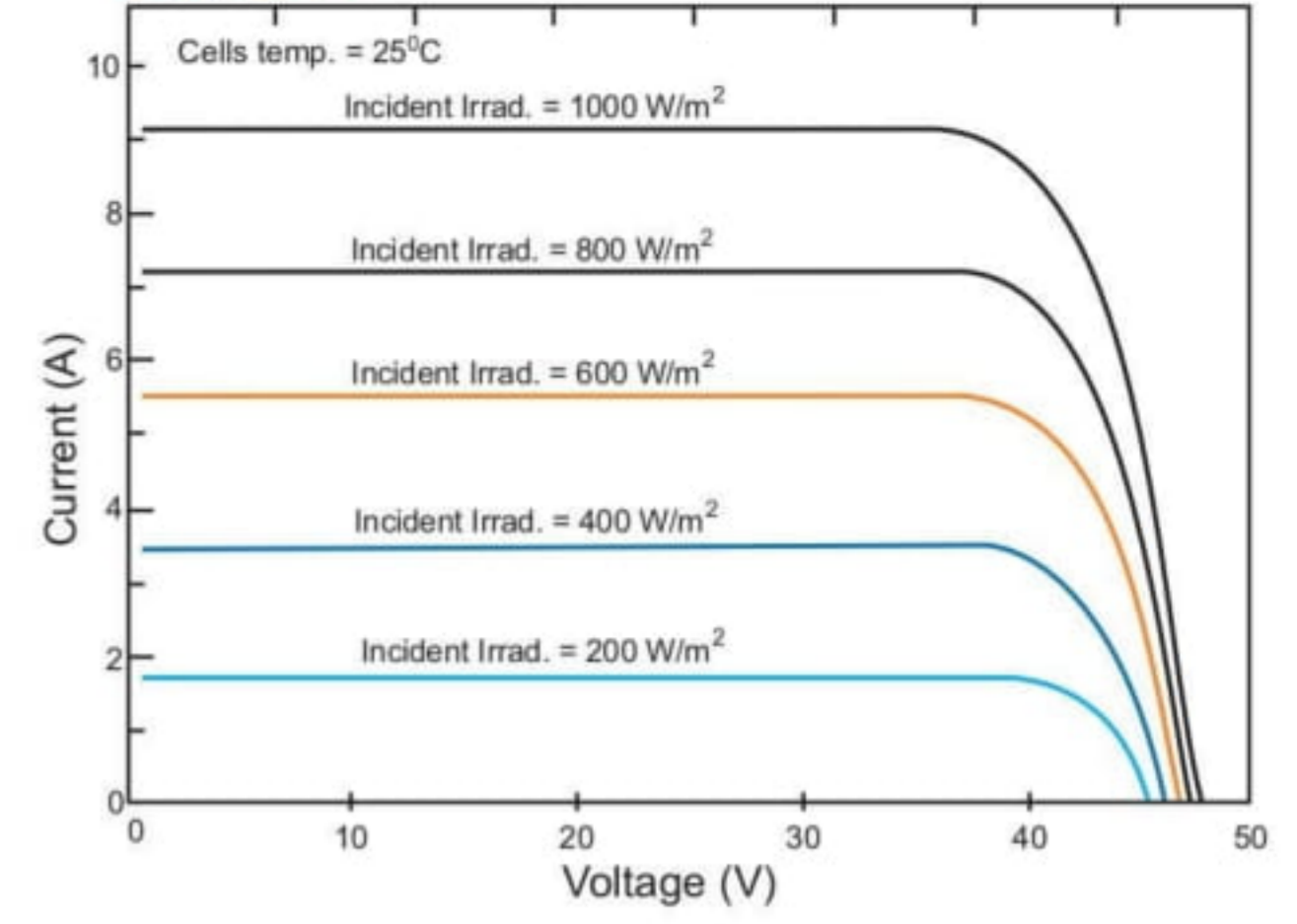
## Temperature Characteristics

Temperature coefficient at maximum power	-0,373 (%/°C)
Temperature coefficient at open - circuit voltage	-0,307 (%/°C)
Temperature coefficient at short - circuit current	+0,050 (%/°C)
Operating temperature	-40~+85 °C
Rated operating temperature of cells	45±2 °C

## Packaging Configuration

Container	40 HQ
Quantity/Pallet	31
Pallets/Container	20
Quantity/Container	620

## Curves



## Safety



Resistance to salt-spray corrosion (IEC61701, certified to SGS test standart)



Resistance to ammonia corrosion (IEC62716, certified to SGS test standart)



Fire safety (Class C, certified to SGS test standards)

## Reliability



Resistance to power attenuation passed SGS system voltage endurance test

## High performance



Excellent power output of modules in low light environment



100% double EL test enabling remarkable reduction of hidden crack rate of modules