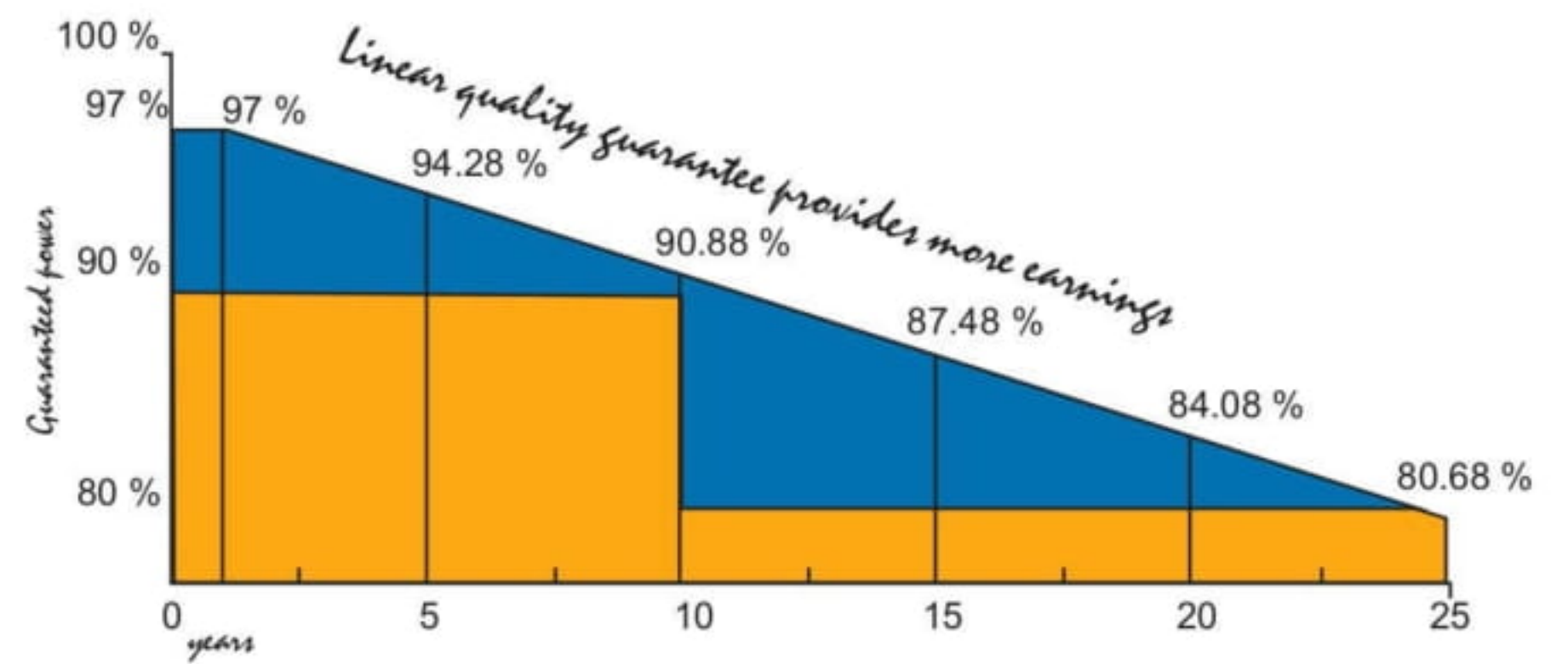


Management System
Kalite Yönetim Sistemi

- 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 (Amonia Corrosion)
 IEC 62804 (Potential Induced Degradation)



Product Quality &
Process Guarantee



Linear Power
Guarantee



Testing
Laboratory



Structural Characteristics

Module dimensions	1722 x 1134 x 30 mm
Weight	20.8 kg
Cell	Monocrystal Half Cut Cell 182x91mm(108 Cells)
Glass	3.2 mm AR tempered glass, low iron
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Wire	4.0 mm ² , wire length: 300 mm
Connector	MC4 Connector
Mechanical Load	5400 Pa



Electric Characteristics (STC)

Model Of Modules	395-120M	400-120M	405-120M	410-120M	415-120M
Maximum power - P_{max} (W)	395	400	405	410	415
Open-Circuit Voltage - V_{oc} (V)	36.90	37.00	37.10	37.20	37.30
Short-Circuit Current - I_{sc} (A)	13.71	13.76	13.81	13.86	13.91
Maximum Power Voltage - V_{mp} (V)	30.36	30.46	30.57	30.67	30.76
Maximum Power Current - I_{mp} (A)	13.01	13.13	13.25	13.37	13.49
Module Efficiency - η_m (%)	20.2	20.5	20.7	21.0	21.3

STC: Irradiance 1000 W/m², 25°C, AM 1.5

Power Tolerance (W)	(0,+5)
Maximum system voltage (V)	1500 V
Maximum rated fuse current (A)	20

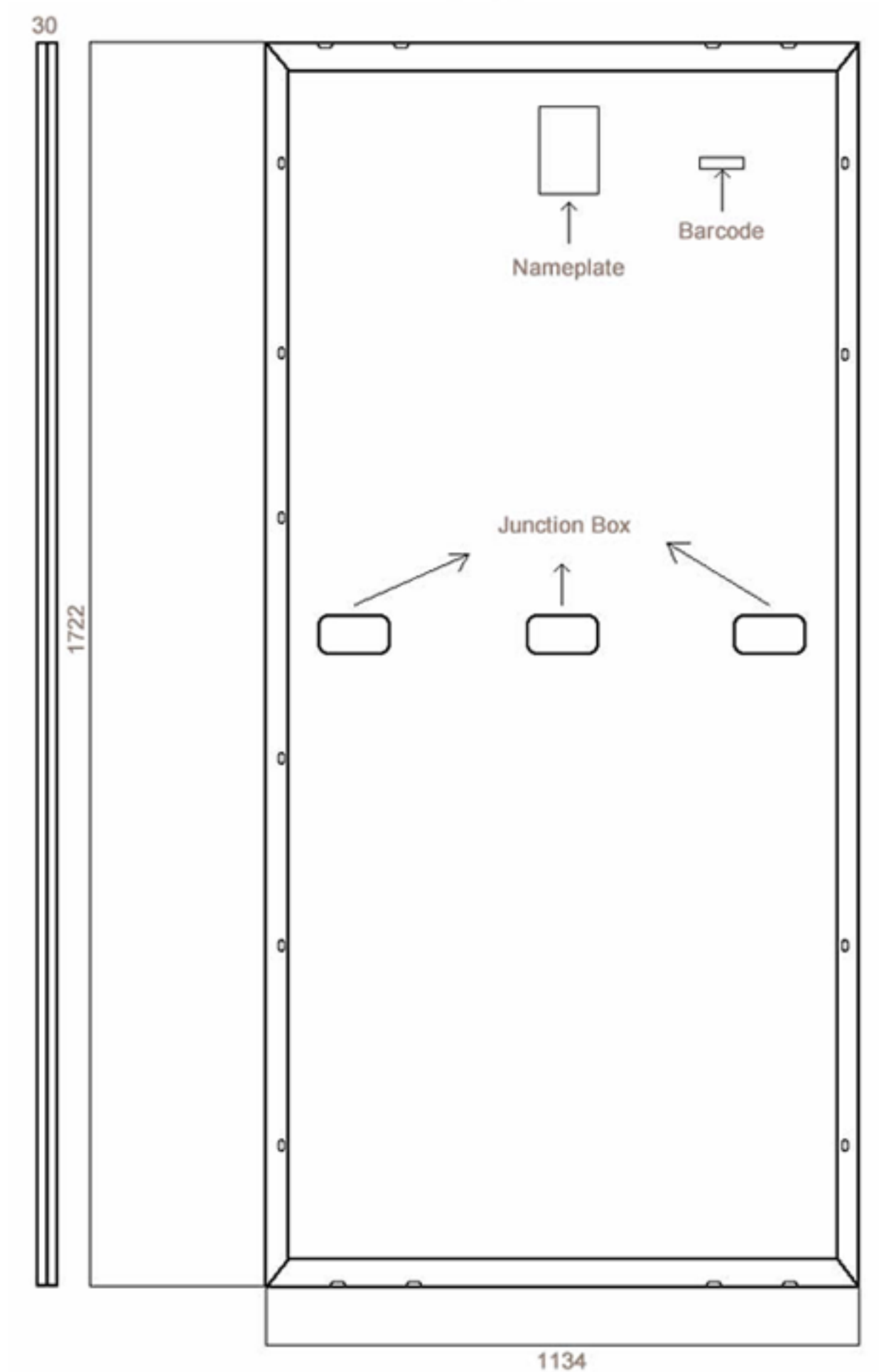
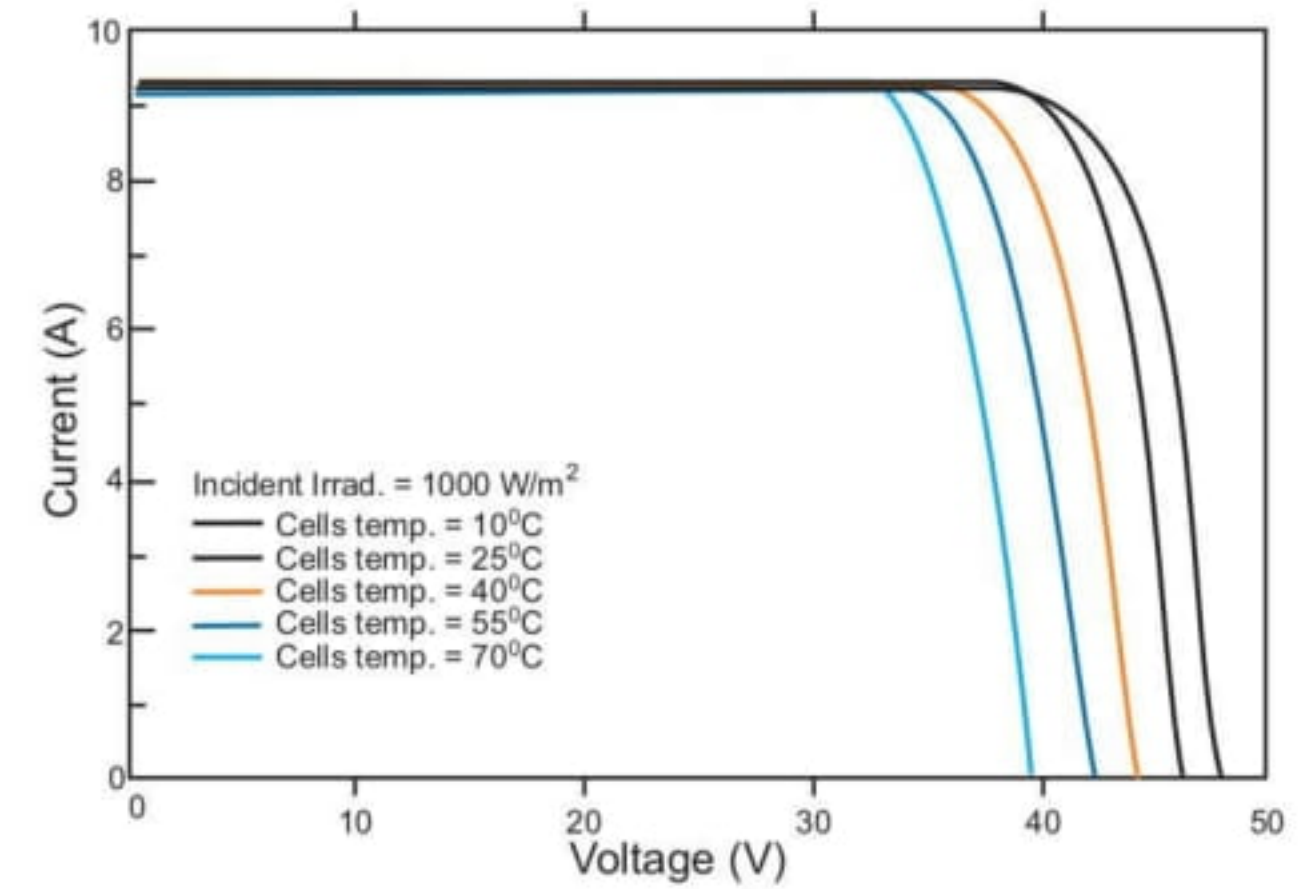
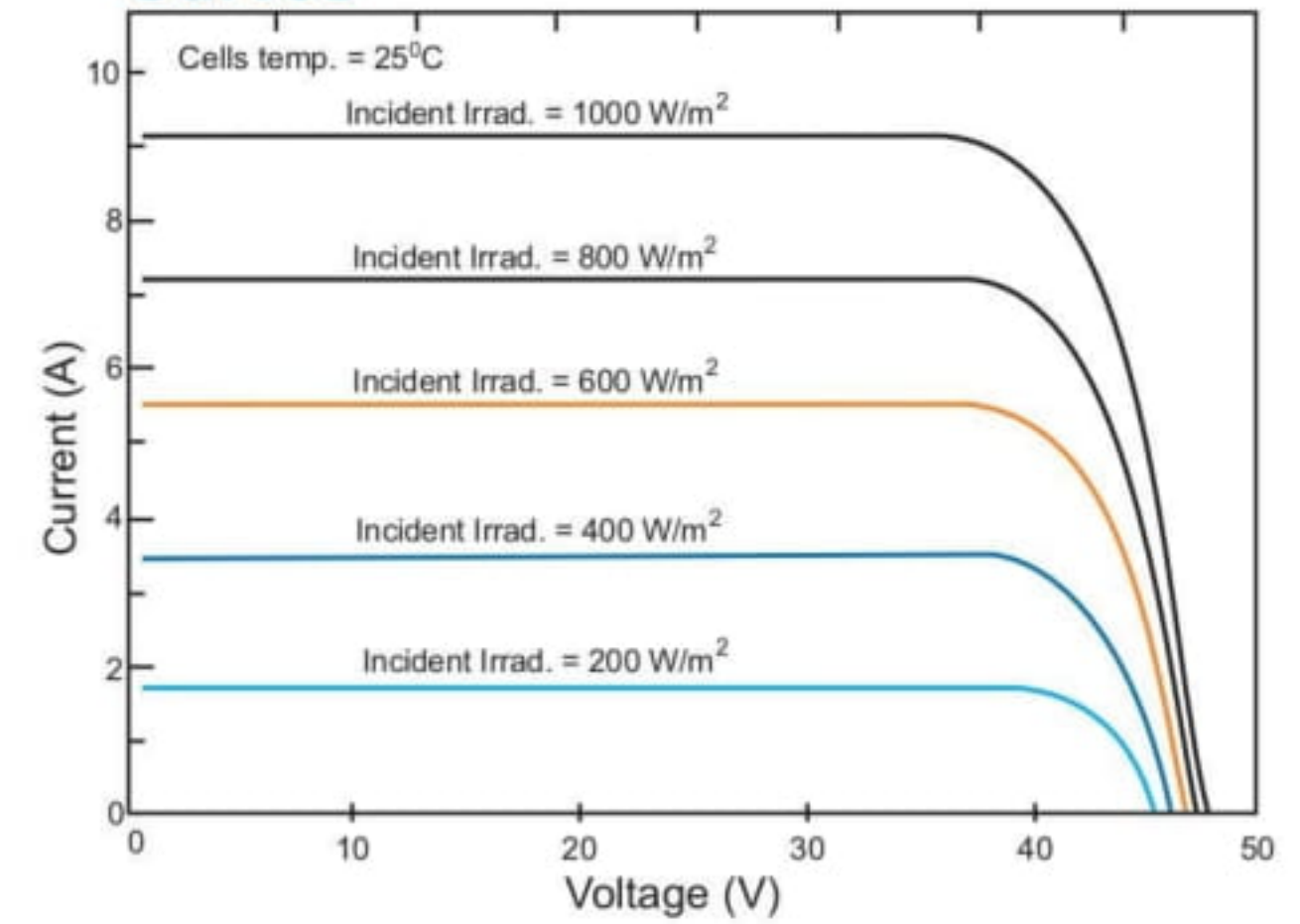
Temperature Characteristics

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	20 GP	40 GP	40 HC
Quantity/Pallet	35	35	35
Pallets/Container	12	26	26
Quantity/Container	420	910	910

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