

# ASE48M

**48 Cells Monocrystalline Panels** 



Electroluminescence: Quality control for small microcracks with infrared radiation.



Sun Simulator: 1000 W/m<sup>2</sup> radiation,





**Snow Load Test:** Under 5400 Pa snow load resistance according to IEC 61215



Ammonia Corrosion Test: Corrosion resistance according to IEC 62716



Potential Induced Degradation: PID Resistance according to IEC 62804



Wind Load Test: Under 5400 Pa wind load resistance according to IEC 61215



Thermal Cycles Damp Heat Test: 1000



High Performance in Low Radiation On cloudy days, morning and evening over %3 performance (200 w/m2)



Fill Factor: High Fill Factor value, increased **Cell Power:** Five bus bar, with high power.



QR Code System: Real power measurement of modules which have +5 power tolerance ease of viewing with QR Code.



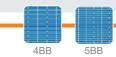


ISO 9001	ISO 14001	ISO 18001
IEC 61215	IEC 61730-1	IEC 61730-2
IEC 61701	IEC 62716	IEC 62804

"LOCAL ITEM" MENTIONED **IN NUMBER 5346 YEK LAW** 



# HIGH QUALITY CONTROL



**Technical Specifications** 

**Mounting Slot** 

# Frame



245
245
8,41
9,30
9,85
6,54
1,63
2

## Makanik Varilari

**Electrical Data** 

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Subject	Specification
Dimensions	1335 ± 2 mm (L) x 997 ± 2 mm (W) x 42-35 0,5 mm (D)
Weight	17 Kg
Solar Cell	48 Monocrystalline Type 6" Silicon Cells (156.75 mm x 156.75 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsuland	Ethylene Vinyl Acetate (EVA)
Backsheet	Composite Film, Color White
Junction Box	With Multicontact / Tyco / Ekinler Certificate
Frame	Aluminium Frame (Eloxal Coating)

# **Operating Conditions**

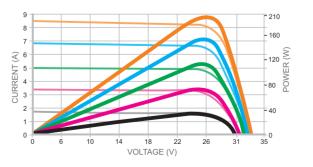
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Subject	Specification	
Mechanical Strenght	5400 Pa (Certified By TUV Rheinland)	
Maximum System Voltage	DC 1000 V	
Series Fuse Rating	15 A	
Operating Temperature	-40 to 85 °C	

# **Temperature Characteristics**

Subject	Specification
Nominal Operating Cell Temperature	44 °C ± 2 °C
Temperature Coefficient of αlsc (%/°C)	-0,04 % / °C
Temperature Coefficient of βVoc (%/°C)	-0,31 % / °C
Temperature Coefficient of Pmax Y (%/°C)	-0,42 % / °C
Temperature Coefficient of βVmpp (%/°C)	-0,42 % / °C

## Warranty

Subject	Specification
Product Warranty	10 Years
Linear Performance Warranty	10 Years, over %90 - 25 Years, over %80
JIT Product	Warranty of selling panels that are produced in last on year.
Power Tolerance	Positive (+) 5 Watt
Online Datasheet on the panel	QR Code System



The typical relative change in module efficiency at irradiance of 200 W/m2 in relation to 1000 W/m2 (both at 25 °C and AM 1.5 spectrum) is less than 3 %.

1000 W/m² 800 W/m² 600 W/m² 400 W/m² 200 W/m²

**Linear Performance Warranty** 97% -**Standard Performance Warranty** 

