

# SOLAR ROOF TILE



**WATER PROOF, SUITABLE FOR ROOFTOP  
SOLAR PANEL FRAME SYSTEM**

PERC MONOCRYSTALLINE

144PM

- ◆ TT465-144PM 465 Wp
- ◆ TT460-144PM 460 Wp
- ◆ TT455-144PM 455Wp
- ◆ TT450-144PM 450 Wp
- ◆ TT445-144PM 445 Wp
- ◆ TT440-144PM 440 Wp
- ◆ TT435-144PM 435 Wp



**High Conversion Efficiency**

High panel efficiency to guarantee high power output



**Self-Cleaning And Anti-Reflection Glass**

Coating glass for self-cleaning reduces surface dust



**Outstanding Low Irradiation Glass**

Outstanding panel performance even in weak light conditions



**Excellent Durability**

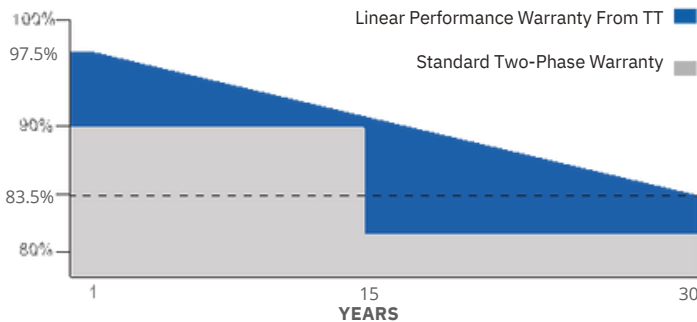
Wind load up to 2400 Pa, Snow load up to 5400 Pa



**0~+5W Positive Power Tolerance**



**Easy Installation**



✓ 30 Years Performance Warranty

✓ 15 Years Product Warranty

# Half-Cut

Allianz



Model Type	TT435 144PM	TT440 144PM	TT445 144PM	TT450 144PM	TT455 144PM	TT460 144PM	TT465 144PM
Peak Power (Pmax)	435	440	445	450 Wp	455	460	465
Module Efficiency	Wp	Wp	Wp	20.70	Wp	Wp	Wp
Maximum Power Voltage (Vmp)	20.00	20.20	20.40	41.40	20.90	21.13	21.36
Maximum Power Current (Imp)	40.80	41.00	41.20	10.87	41.60	41.80	42.00
Open Circuit Voltage (Voc)	10.67	10.74	10.81	49.20	10.94	11.00	11.07
Short Circuit Current (Isc)	48.60	48.80	49.00	11.61	49.40	49.60	49.80
Power Tolerance	11.40	11.47	11.54	0~+5W	11.67	11.74	11.80
Maximum System Voltage	1000V DC / 1500V DC						
Operating Temperature	-40 ~ +85°C						
Fire Safety Class	C						
Maximum Series Fuse Rating	15A / 20A						

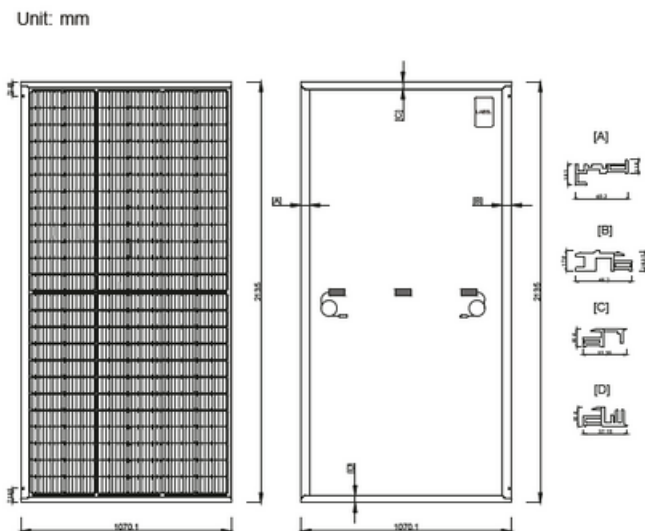
### MECHANICAL SPECIFICATIONS

Cell Dimensions(mm)	166 x 83
Cells per Module(pcs)	144 (24x6)
Weight(kg)	26
Panel Dimensions(mm)	2135 x 1070.1
Max. Wind/Snow Load(Pa)	2400/5400
Junction Box	IP67 / IP68
Junction Box Cable Length(mm)	350-1200

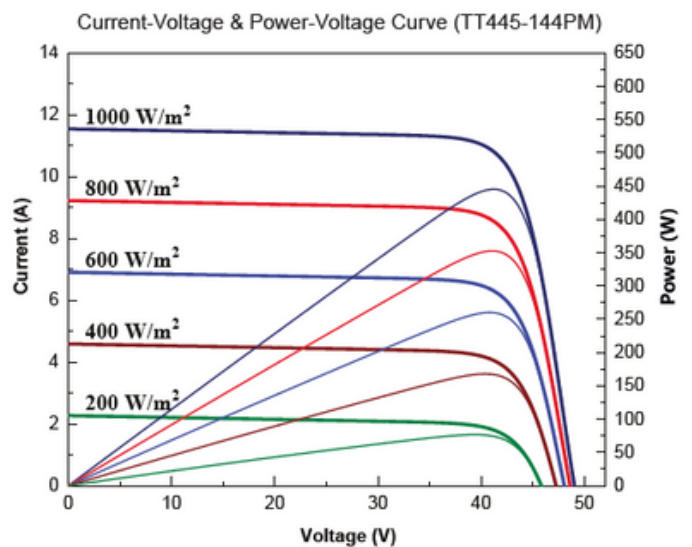
### TEMPERATURE CHARACTERISTICS

Temp. Coeff. of (Isc)	0.050%/°C
Temp. Coeff. of (Voc)	-0.304%/°C
Temp. Coeff. of (Pmax)	-0.360%/°C

### PHYSICAL CHARACTERISTICS



### ELECTRICAL CHARACTERISTICS



\*Note: The specifications are obtained under the standard test conditions: 1000W/m2 solar irradiance, 1.5 Air Mass and cell temperature of 25°C. Measurement uncertainty for all panels is 6%. The actual transactions will be subject to the contracts. These parameters are for reference only and it is not a part of the contracts. The specifications are subject to change without prior notice.