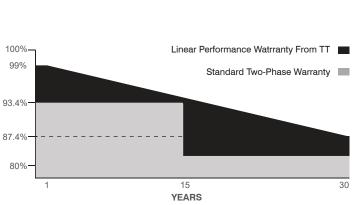
# **TOPCON MONOCRYSTALLINE** 144TNFB10



GERMAN-based company •••





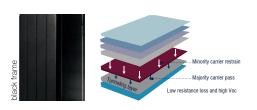








# Half **Cut** Multi-BB **DARK SERIES**





# High Conversion Ef \u2211cieny

High panel ef ciency 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.



### **Easy Installation**









IEC 61215, IEC 61730-1, IEC 61730-2 IEC 61215, IEC 1730-1, IEC 61730-2 IEC 62804 PID (POTENTIAL INDUCED DEGRADATION) IEC 61701 SALT MIST CORROSION IEC 62716 AMMONIA CORROSION ISO 9001:2015, ISO 14001:2015, ISO 45001:2018





# **DARK SERIES**



# **144TNFB10**

Peak Power (Pmax)
Module Efficiency
Maximum Power Voltage (Vmp)
Maximum Power Current (Imp)
Open Circuit Voltage (Voc)
Short Circuit Current (Isc)
Power Tolerance
Maximum System Voltage
Operating Temperature
Protection Class
Maximum Series Fuse Rating

#### **MECHANICAL SPECIFICATION**

Cell Dimensions (mm)
Cells per Module (pcs)
Weight (kg)
Panel Dimensions (mm)
Max. Wind/Snow Load (Pa)
Junction Box
Junction Box Cable Length (mm)

TT570 144TNFB10	TT575 144TNFB10	TT580 144TNFB10	TT585 144TNFB10	TT590 144TNFB10	TT595 144TNFB10
570 Wp	575 Wp	580 Wp	585 Wp	590 Wp	595 Wp
22.07	22.26	22.45	22.65	22.84	23.03
42.55	42.75	42.95	43.15	43.35	43.55
13.40	13.46	13.51	13.56	13.62	13.67
50.58	50.78	50.98	51.18	51.38	51.58
14.17	14.23	14.31	14.38	14.45	14.53
		0~-	+5W		
		1500	V DC		
		-40 ~	+85°C		
		Cla	iss II		
		2	5A		
		182	2x91		
		144	(6x24)		
		2	9.0		
		2278X	1134X35		
		2400	)/5400		
		IF	P68		
		350-	-1600		

### **TEMPERATURE CHARACTERISTICS**

Temp. Coeff. of (Isc)

Temp. Coeff. of (Voc)

Temp. Coeff. of (Pmax)

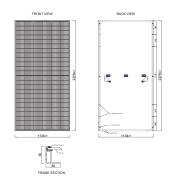
## 0.040%/°C -0.260%/°C -0.30%/°C

# **PACKING CONFIGURATION**

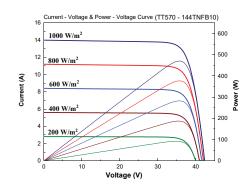
Container 40' GP

Pieces per Pallet	30
Pieces per Container	600
Pallets per Container	20

#### PHYSICAL CHARACTERISTICS



#### **ELECTRICAL CHARACTERISTICS**



<sup>\*</sup> 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 technical specifications in this document may vary. For more information, refer to the "Installation Manual".

<sup>\*</sup> For roof, facades and installations on similar surfaces, solar panels should be mounted over a fire-resistant covering suitable for this application, with adequate ventilation between the back of the solar panels and the mounting surface. Improper installations are hazardous and may spark a fire. Solar panels must not be mounted on structures and roofs which are made of not fire-resistant materials such as plastic layer, transparent plastic, PVC or similar materials without any fire-protection layer. Usage and installation not in accordance with the guidelines as outlined in the installation manual will terminate the warranty. Please refer to the installation manual and the warranty documents for further details.

<sup>\*</sup> TommaTech® GmbH reserves the right to change the specification of products without prior notice