

DUAL GLASS N type i-TOPCon MODULE

450 W

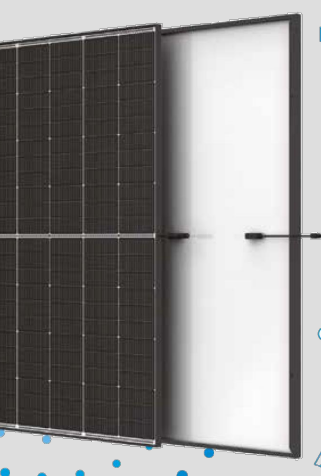
MAXIMUM POWER OUTPUT

0/+5 W Tolerance

POSITIVE POWER TOLERANCE

22.5 %

MAXIMUM EFFICIENCY



Small in size, bigger on power

- Generates up to 450 W, 22.5 % module efficiency with higher diode interconnect technology
- Multi-busbar technology for better light trapping, lower series resistance, improved current collection and enhanced reliability
- Reduces installation cost with higher power bin and efficiency

Dual-glass Design, High Reliability

- Excellent the rating and resistance to harsh environmental conditions
- 5,400 Pw snow load and 4,000 Pw wind load (test loads)

Maximize Energy Harvest

- Up to 25 years product warranty and 30 years power warranty
- 1 % first year degradation and 0.4 % annual degradation enabled by N-type technology

PRODUCT: TSM-NEG6R-230

POWER RANGE: 425-450 W

Universal solution for residential and C&I rooftops

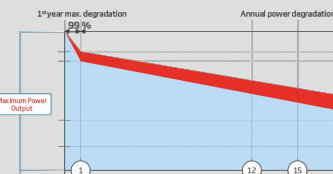
- Designed for compatibility with existing mainstream inverters, optimizers and mounting systems
- Perfect size and low weight for easy handling, Optimized transportation cost
- Flexible installation solutions for system deployment

Extended Vertex S+ Warranty





1 %
First year degradation

0.4 %
Max. Annual degradation from year 2 to 30


25 Years
Product Manufacturer Warranty



Comprehensive Products and System Certificates

800125/800174/800175/800176/800178
 ISO 9001:2015 Quality Management System
 ISO 14001:2015 Environmental Management System
 ISO 45001:2018 Occupational Health and Safety Management System



INVERSOR ZCS AZZURRO 3PH HYD10000 ZSS

3PH HYD 10000 ZSS/3PH HYD 20000 ZSS

Three-phase hybrid inverter



Automatic management of the energy flows from the photovoltaic system, battery and grid

- » Automatic management of the energy flows from the photovoltaic system, battery and grid
- » On-board Energy Meter
- » Parallel-ready
- » Possibility of operation in zero grid feed-in mode
- » Unit compatible with high voltage lithium battery (180-750V)

Stand-Alone support mode guarantees continuity of operation and "island" operation, both from the photovoltaic source and battery in the event of power failure.


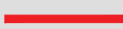



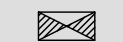



BLOCK DIAGRAM



SISTEMA DE ARMAZENAMENTO ZCS AZZURRO WECO 5K3 XP

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LEGENDA DE SIMBOLOS

	Cabo de string H1ZZZ-K seção 6 mm²
	Tubo corrugado para instalação subterrânea Ø50
	Tubo de PVC Ø32
	Módulo fotovoltaico de 430 Wp tipo TRINA SOLAR TSM-430 NEG9R.28 ou equivalente
	Caixa de inspeção 60x60
	Quadro elétrico
	Ponto de variação de cota
	Inversor trifásico híbrido 400V tipo ZCS AZZURRO 3PH HYD10000 ZSS ou equivalente
	Sistema de armazenamento de 5,8 kWh tipo ZCS AZZURRO WECO 5K3 XP ou equivalente

CONFIGURAÇÃO

Inversor 1	MPPT 1	MPPT 2
Módulos para strings	16	16
Strings em paralelo	1	1

NOTA

Os equipamentos e as dorsais existentes estão destacados na cor azul