SNA 3-6k Monofase

- Commutazione da off-grid alla rete senza interruzione di fornitura di energia
- Ampio intervallo di tensione di ingresso fotovoltaico
- Monofase/Trifase sbilanciata
- Supporto fino a 16 unità in parallelo
- L'inverter principale viene generato automaticamente per gestire l'intero sistema
- Porta del generatore separata disponibile

Eccellente prestazione

Commutazione senza interruzione

Garanzia

APP

Monitoraggio tramite APP

Il tuo partner affidabile per soluzioni energetiche

SpecifiCation

Ingresso (DC fotovoltaico)	SNA 3000W	SNA 4000W	SNA 5000W	SNA 6000W
Potenza massima dell'array fotovoltaico (W)	6000 (3000/3000)	8000 (4000/4000)	8000 (4000/4000)	8000 (4000/4000)
Tensione nominale di ingresso fotovoltaico (V)	320			
Numero di ingressi MPPT indipendenti	2			
Intervallo di tensione di ingresso fotovoltaico (V)	100~480			
Intervallo di tensione MPPT (V)	120~385			
Tensione di avviamento (V)	100			
Corrente massima di ingresso fotovoltaico per MPPT (A)	17/17			
Corrente massima di cortocircuito dell'ingresso fotovoltaico per MPPT (A)	25/25			
Batteria				
Tipo di batteria compatibile	Ioni di litio / Piombo acido			
Tensione nominale della batteria (V)	48			
Intervallo di tensione della batteria (V)	38.4~60			
Corrente massima di carica/scarica (A)	70	90	110	140
Potenza massima di scarica/scarica (W)	3000	4000	5000	6000
Capacità consigliata della batteria per inverter	>100AH	>200AH	>200AH	>200AH
Risveglio forzato della batteria dalla funzione fotovoltaica	Sì			
Risveglio forzato della batteria dalla funzione di rete	Sì			
Rete				
Tensione nominale AC (V)	230			
Frequenza nominale AC (Hz)	50/60			
Corrente nominale in uscita AC (A)	13.5	17.5	22	26.5
Potenza nominale in uscita AC (W)	3000	4000	5000	6000
Corrente massima di ingresso AC	26	35	35	39.5
Potenza massima di ingresso AC	6000	8000	8000	9000
Fattore di potenza (PF)	0.99			
Distanza armonica totale di corrente (THDI)	<5%			
Corrente AC nominale dei relè di BYPASS (A)	40			
UPS				
Potenza nominale un uscita (W)	3000	4000	5000	6000
Tensione nominale in uscita (V)	230			
Corrente nominale in uscita (A)	13.5	17.5	22	26.5
Frequenza nominale in uscita (Hz)	50/60			
Potenza di picco, durata	2Pn, <2S			
Tempo di commutazione	<15ms@Singolo/ <30ms@In parallelo			
Forma d'onda	Onda sinusoidale			
THDV	3%			
Efficienza				
Efficienza massima di MPPT	0.99			
Efficienza massima	0.93			
Efficienza UE	/			
Efficienza massima di carica	0.93			
Efficienza massima di scarica	0.93			
Protezione				
Protezione da sovracorrente/sovratensione	Sì			
Protezione da corrente di cortocircuito AC	Sì			
Monitoraggio della rete	Sì			
Protezione da sovratensioni AC Tipo III	Sì			
Protezione dalla polarità inversa della batteria	Sì			
Generale				
Dimensioni (L*A*P)	330*505*135mm/13*19.9*5.3inch			
Peso	14.5kg/32lbs			
Grado di protezione	IP20			
Intervallo di temperatura ambiente operativa	0~50°C			
Intervallo di temperatura di conservazione	-15~60°C			
Umidità relativa	5%~95%			
Display e interfaccia di comunicazione	LCD+LED, RS485/Wi-Fi/CAN			
Garanzia	2 anni			
Metodo di raffreddamento	Raffreddamento Intelligente			
Topologia	Senza trasformatore			
Altitudine	<2000m			
Emissioni sonore (tipiche)	<50dB			
Standard e Certificazioni				
IEC 62109-1, IEC 61000, IEC62040/EN62040, IEC62109, NRS 097-2-1				

DYNESS

A48100

This 4.8kWh LFP module supports both floor-standing and wall-mounted installations. It is equipped with OTA function for remote upgrade and monitoring.
Up to 30 modules in parallel, it can meet various needs of users and enable flexible expansion.

APP Monitoring (optional)
Real-time monitoring
& Remote upgrade available

Module Design
Flexible expansion

Various Mounting Methods
Wall-mounted,
floor-standing and stacked

High Safety LFP
Cell level monitoring and balancing

Wide Compatibility
Matching with leading inverters

Technical Specifications

Model	A48100
Battery Type	LiFePO4
Nominal Battery Energy	4.8kWh
Nominal Capacity	100Ah
Nominal Voltage	48V
Operating Voltage	42 ~ 54V
Recomended Charge & Discharge C Rate	0.5C
Recommended Charge/Discharge Current	50A
Max Continous Charge/Discharge Current	75A
Peak Power Charge/Discharge Current	100A (15s)
Depth of Discharge (DOD)	90%
Net Weight	45kg
Dimension[W*D*H]	504*597*155 mm
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Cycle Life[1]	≥6000 Cycles
Protection Level	IP20
Expansion	Up to 30 units in parallel
Pros	Can be used in both off-grid and hybrid setups, compact design
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/IEC60730/CEI-021/GOST-R/UKCA
Compatible Inverters	SMA/Victron/Ingeteam/Delios/Goodwe/Solis /Deye/SAJ/Voltronic/Sungrow etc.

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 90% DOD

www.dyness.com
sales@dyness-tech.com

Preliminary

Vertex N

MONOFACIAL DUAL GLASS MODULE

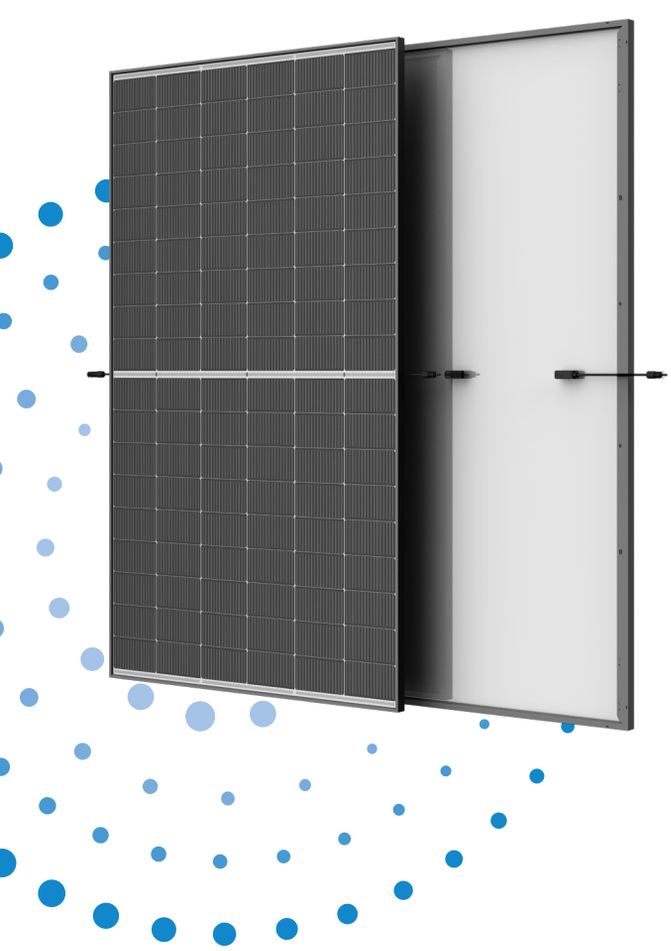
PRODUCT: TSM-NEG18R.28

PRODUCT RANGE: 475-505W

505W
MAXIMUM POWER OUTPUT

0~+5W
POSITIVE POWER TOLERANCE

22.7%
MAXIMUM EFFICIENCY



High customer value

- Lower LCOE (levelized cost of energy), reduced BOS (balance of system) cost, shorter payback time
- Guaranteed first year and annual degradation
- High module power, high string power and low voltage design

High power up to 505W

- Up to 22.7% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

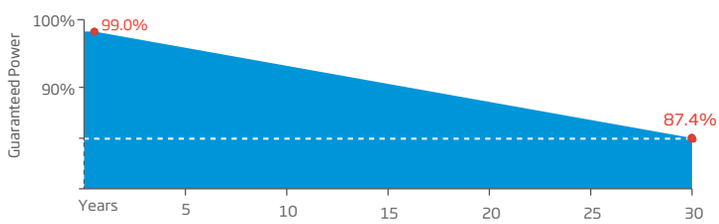
Dual-glass design, high reliability

- Less prone to micro-cracks and scratches on the back during installation
- Applicable in harsh environments such as salt, ammonia, sand, high temperature and high humidity areas with excellent fire rating, weather resistance, salt spray, sand dust, ammonia performance
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load
- Easy to handle and install on roofs with excellent size and light weight

Ultra-low degradation, longer warranty, higher output

- Extremely low 1% first year degradation and 0.4% annual power attenuation
- Up to 15 years product warranty and 30 years power warranty
- Lower temperature coefficient (-0.30%) and operating temperature

Trina Solar's Vertex Monoficial Dual Glass Performance Warranty



Comprehensive Products and System Certificates

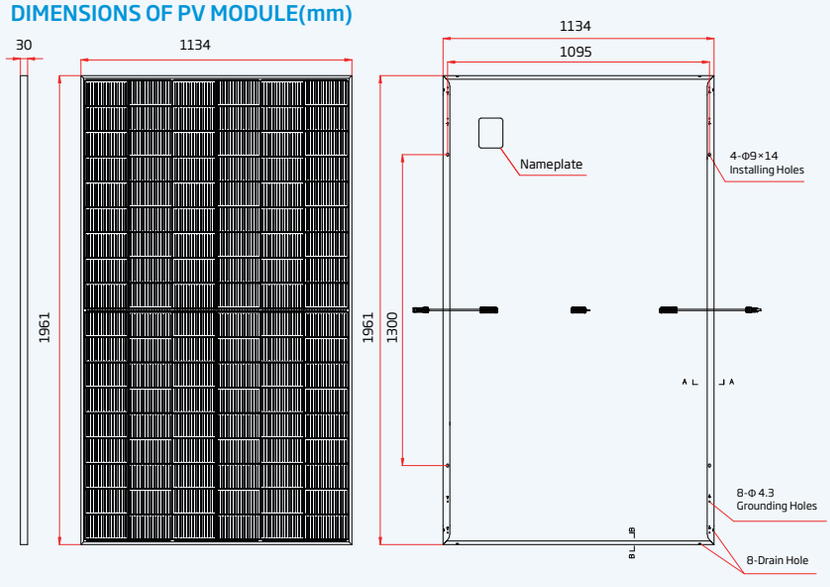
IEC61215/IEC61730/IEC61701/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupational Health and Safety Management System

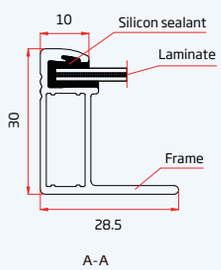
Trinasolar

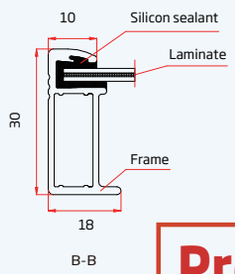
Vertex N

MONOFACIAL DUAL GLASS MODULE

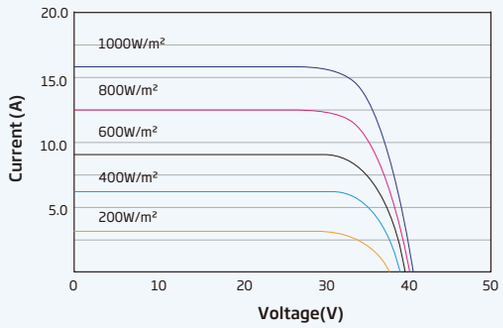
DIMENSIONS OF PV MODULE(mm)



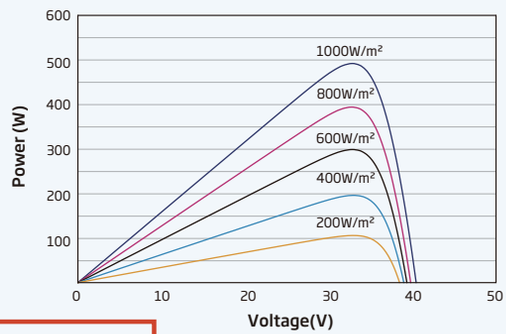




I-V CURVES OF PV MODULE (490W)



P-V CURVES OF PV MODULE (490W)



Preliminary

ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	475	480	485	490	495	500	505
Power Tolerance-PMAX (W)	0 ~ +5						
Maximum Power Voltage-VMPP (V)	32.3	32.5	32.7	32.9	33.1	33.3	33.5
Maximum Power Current-IMPP (A)	14.72	14.77	14.84	14.91	14.97	15.03	15.09
Open Circuit Voltage-VOC (V)	39.0	39.2	39.4	39.6	39.8	40.0	40.3
Short Circuit Current-ISC (A)	15.68	15.72	15.76	15.80	15.83	15.86	15.90
Module Efficiency η m (%)	21.4	21.6	21.8	22.0	22.3	22.5	22.7

STC: Irrdiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	363	367	370	374	378	381	385
Maximum Power Voltage-VMPP (V)	30.4	30.6	30.8	31.0	31.3	31.5	31.7
Maximum Power Current-IMPP (A)	11.94	11.98	12.02	12.06	12.08	12.11	12.15
Open Circuit Voltage-VOC (V)	36.9	37.1	37.3	37.5	37.7	38.0	38.2
Short Circuit Current-ISC (A)	12.64	12.67	12.70	12.74	12.76	12.78	12.82

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	108 cells
Module Dimensions	1961×1134×30mm (77.20×44.65×1.18 inches)
Weight	23.5kg (51.8 lb)
Front Glass	1.6mmHigh Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE/EVA
Back Glass	1.6mm (0.06 inches), Heat Strengthened Glass
Frame	30mm(0.06 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: 280/350 mm(11.02/13.78 inches) Length can be customized
Connector	MC4 EVO2 / TS4 Plus / TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of PMAX	- 0.30%/°C
Temperature Coefficient of VOC	- 0.24%/°C
Temperature Coefficient of ISC	0.04%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	30A

WARRANTY

15 year Product Workmanship Warranty

30 year Power Warranty

1% first year degradation

0.4% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 36 pieces

Modules per 40' container: 864 pieces

Trinasolar

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Version number: TSM_EN_2023_PA4

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