



Power Beyond Solar

The World Leading PV and Smart Energy IoT Total Solution Provider



Trina Solar
Official Website



Vertex Product
information

For more information regarding Vertex module,
please follow our social media accounts or
scan the QR codes to visit us at our website.

Vertex N

Ground-Mounted Power Station

"The Star of LCOE"

695W+



HIGH EFFICIENT COST-SAVING

8.06% BOS Cost Reduction

2.97% LCOE Reduction

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- 3. Module Information

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Most advanced technology

Advanced 210 Technology Platform



The most advanced silicon product in photovoltaic industry

Multi-busbar Technology



Multi-busbar technology, improving optical utilization rate with higher electricity performance

High-density Interconnection(HDI) Technology



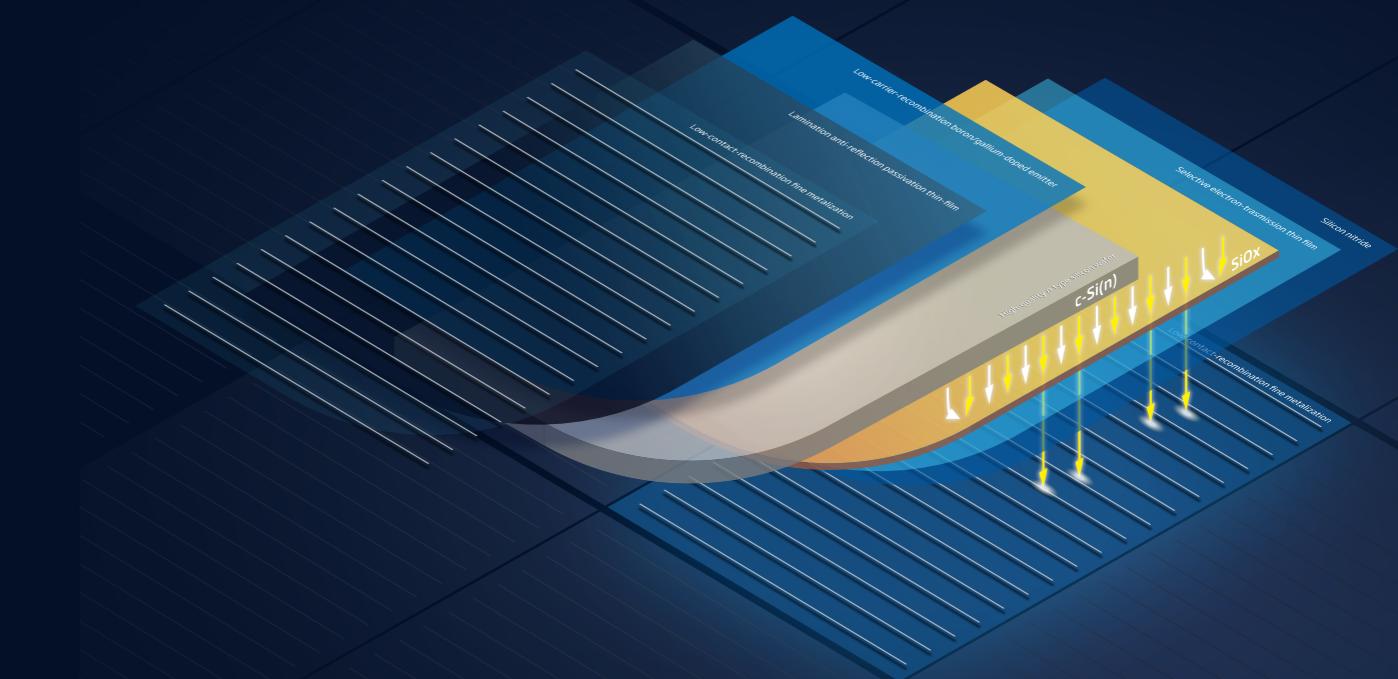
High density encapsulation technology, optimizing power output with good balance between reliability and efficiency, module efficiency increase 0.2~0.3%

Non-destructive Cutting(NDC) Technology



Achieving better cell strength, lower micro-cracks risk for better product reliability

With N-Type silicon wafer as substrate, The minority carrier life is higher than P-type silicon wafer



High reliability with low operating temperature

Low temperature coefficient: -0.30%/C
Power generation 3% higher than P-PERC



Optimize bifacial power generation performance Increase utility power generation revenue

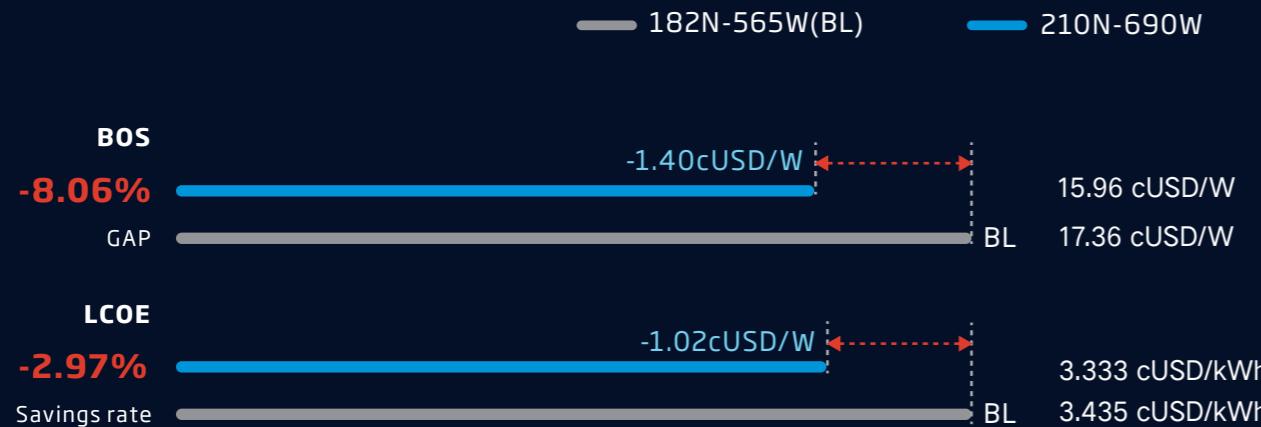
Module bifaciality up to 80%, 10%+ higher than P-type modules
Under different surface reflectivity conditions, the power generation (per watt) gain of Vertex N can be increased by up to 5.42% compared with P-type modules



BOS & LCOE Comparison

Case study

- Location: Parnaiba, Brazil
- Mounting type: 1P tracker
- Inverter type: string inverter
- Module type: bifacial module



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690W VS 565W

Item	Module type	210R-N-66p-690W	182-N-72p-565W
Mounting	Installation	1P tracker	
	Pitch	E-W 6.44m	E-W 6.16m
Inverter	Inverter type	SG320HX	
	Inverter number	10	10
Layout	Module/string	30	28
	String power	20700	15820
	String number	200	258
	Module number	5930	7224
	GCR(%)	35%	35%
BOS Comparison	Total BOS (cUSD/W)	15.96	17.36
	BOS saving (cUSD/W)	-1.40	BL
LCOE Comparison	Total LCOE (cUSD/kWh)	3.333	3.435
	LCOE saving	-2.97%	BL

30W+ HIGHER POWER



Vertex 695W module size: **2384x1303x33mm(Bifacial)**
Weight: **38.3kg (Bifacial)**

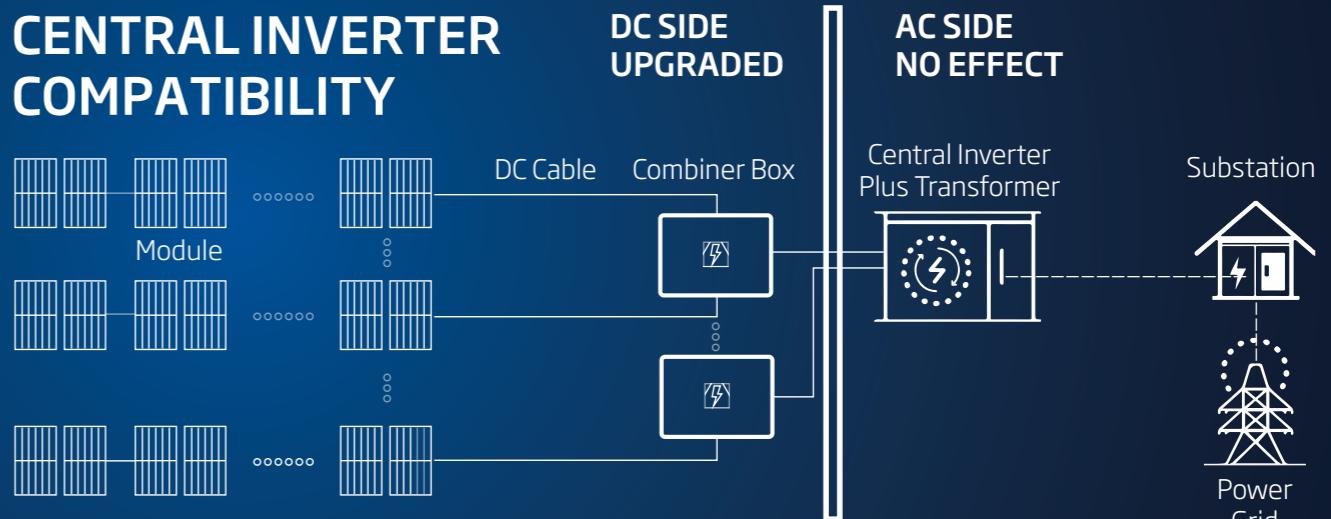
	210R-N-66	182-N-72
Module power (W)	690w (Main power output)	565
Module efficiency	22.2%	21.87%
Module weight (kg)	38.3	32
Module length (mm)	2384	2278
Module width (mm)	1303	1134
Module area (m ²)	3.1	2.6
Short-circuit current-Isc(A)	18.25	14.19
Open-circuit voltage-Voc(V)	47.9	50.87
Module per container(pcs)	594	720
Power per container(W)	409,860	406,800

Inverter Compatibility

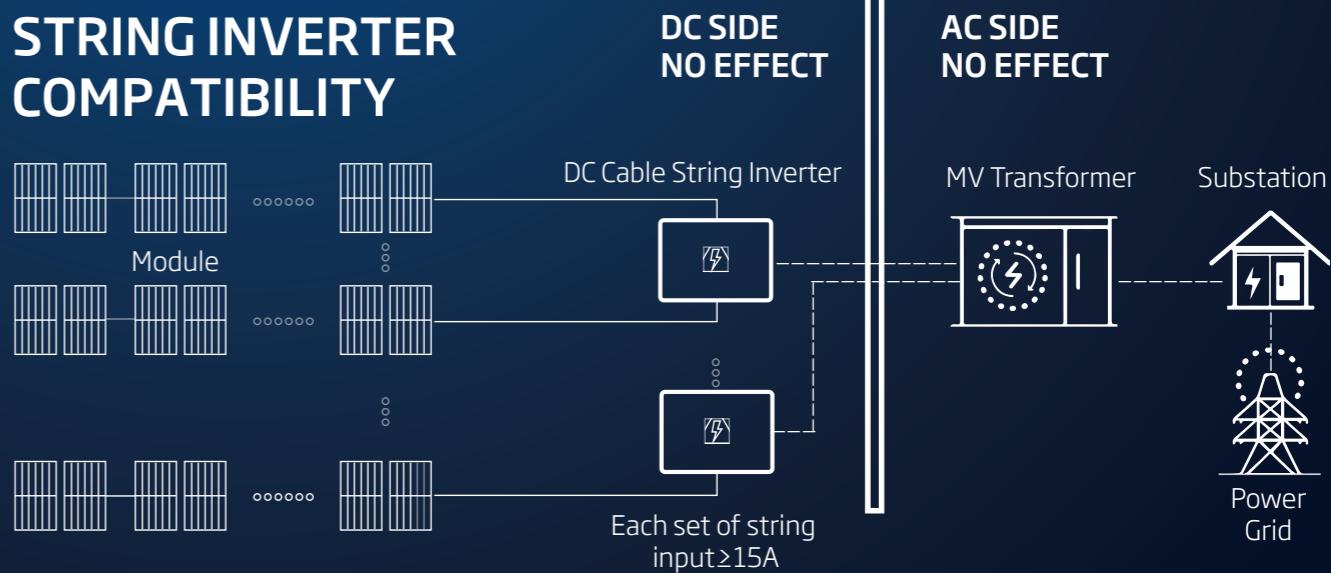
INVERTER TYPE	INVERTER BRAND	INVERTER MODEL
STRING INVERTER	HUAWEI	SUN2000-215KTL-H0, SUN2000-215KTL-H3
	SUNGROW	SG350HX
	GROWATT	MAX 185-253KTL3-X HV
	SOLIS	Solis-215K-EHV-5G-PLUS, Solis-255K-EHV-5G, Solis-255K-EHV-5G-PLUS,
	GOODWE	GW225/250K-HT, GW225/250KN-HT
	SOFAR SOLAR	SOFAR 255KTL-HV
	SMA	SUNNY HIGHPOWER 150-20
	FIMER	PVS-350-TL
	SINENG	SP-250K-H1, SP-275K-H1
	INGETEAM	INGECON SUN 160TL,

*The table only lists the main models of mainstream inverter brands in the market for utility, but does not cover all brands and models;
The inverter models of manufacturers in the table are subject to change without notice.

CENTRAL INVERTER COMPATIBILITY



STRING INVERTER COMPATIBILITY



Vertex N

