

### YS18

Doubling the performance of the most powerful Dual microinverter

- 2 input channels with independent MPPT and monitoring function
- Single unit connects to 4 modules
- Maximum continuous AC output power 1800VA
- Engineered to match the highest power modules available (Maximum input current 20A)
- Safety protection relay integrated
- Encrypted ZigBee Communication

## PRODUCT FEATURES

YS18 is a dual input channel microinverter capable of reaching unprecedented power outputs of 1800VA. The YS18 connects to 4 high power modules (2 by 2 in series). With 2 Independent MPPTs, encrypted ZigBee signal, the YS18 benefits from an entirely new architecture.

The innovative design makes the product unique while maximizing power production. The components are encapsulated with silicone to reduce stress on electronics, facilitate thermal dissipation, enhance waterproof properties and ensure maximum reliability of the system via rigorous testing methods including accelerated life testing. 24/7 energy access through apps or web-based portal facilitate remote diagnosis and maintenance.

In addition, it provides 97% peak efficiency, YS18 is a game changer for multi residential and commercial PV rooftops.

Input Data (DC)	
Recommended PV Module Power (STC) Range	315Wp-670Wp+
Peak Power Tracking Voltage	56V-90V
Operating Voltage Range	52V-118V
Maximum Input Voltage	118V
Maximum Input Current	20A x 2
Isc PV (absolute maximum)	25A x 2
Max. inverter backfeed current to the array	0A
Output Data (AC)	
Maximum Continuous Output Power	1800VA
Nominal Output Voltage/Range (1)	230V/180V-275V
Adjustable Output Voltage Range	180V-275V
Nominal Output Current	7.8A
Nominal Output Frequency/ Range (1)	50Hz/47.5Hz-52Hz
Adjustable Output Frequency Range	45Hz-55Hz
Power Factor Range	0.99/0.8 leading...0.8 lagging
Maximum Units per 4mm <sup>2</sup> Branch (2)	3
Maximum output fault current	24A
Maximum output overcurrent protection	16A
Protective class	I
Efficiency	
Peak Efficiency	97%
CEC Efficiency	96.7%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW
Mechanical Data	
Operating Ambient Temperature Range (3)	-40 °C to +60 °C
Storage Temperature Range	- 40 °C to + 85 °C
Dimensions (W x H x D)	284mm X 234mm X 50.2mm
Weight	4.3kg
AC Bus Cable	4mm <sup>2</sup> (28A)
DC Connector Type	MC4 or MC4 Compatible
Cooling	Natural Convection – No Fans
Enclosure Environmental Rating	IP67
Features	
Communication (Inverter To ECU) (4)	Encrypted ZigBee
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	Via SILRES monitoring portal
Warranty (5)	10 Years Standard; Extended Warranty Optional
Compliances	
Compliance	IS 16169 / IEC 62116, IS 16221 / IEC 62109 – 1, IEC 62109 – 2, IEC 61683:1999, IEC 60529, IEC 61000-3-2, 3-3, 3-11, 6-1, 6-3, IEC 60068-2-1, 2-2, 2-14, 2-30, 2-78

(1) Nominal Voltage/ Frequency range can be extended beyond nominal if required by the utility.

(2) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area

(3) The inverter may enter power de-grade mode when the inverters are under poor ventilation and heat dissipation installation environment

(4) Recommend no more than 80 inverters register to one ECU for stable communication

(5) To be eligible for the warranty, SILRES microinverters need to be connected via SILRES monitoring portal

Please refer to our warranty T&Cs available on [www.feniceenergy.com](http://www.feniceenergy.com)

Specifications subject to change without notice; please ensure you are using the most recent update found at web: [www.feniceenergy.com](http://www.feniceenergy.com)

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