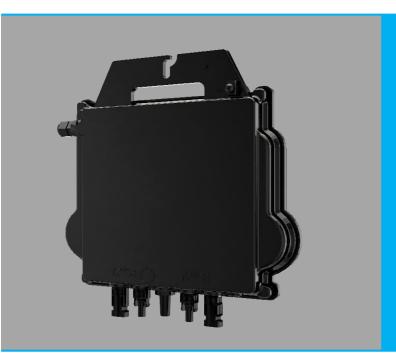
# SILRES

## Unlock the full potential of **Solar Energy**



### **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 webbased 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.



### MICROINVERTER DATASHEET

|  | -  |
|--|--|
| 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 leading0.8 lagging  |
| Maximum Units per 4mm² Branch (2)                  | 3  |
| ·  |  |
| Maximum output fault current                       | 24A  |
| Maximum output overcurrent protection              | 16A  |
| Protective class                                   | <u> </u>   |
| Efficiency   |  |
| Peak Efficiency<br>CEC Efficiency                  | 97%<br>96.7%   |
| Nominal MPPT Efficiency                            | 99.5%  |
| Night Power Consumption                            | 20mW   |
| Mechanical Data                                    |  |
| Operating Ambient Temperature Range <sup>(3)</sup> | -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                                       | 4mm²(28A)  |
| DC Connector Type                                  | MC4 or MC4 Compatible  |
| Cooling  | Natural Convection - No Fans   |
| Enclosure Environmental Rating                     | IP67   |
| Features   |  |
| Communication (Inverter To ECU) <sup>(4)</sup>     | Encrypted ZigBee   |
| Isolation Design                                   | High Frequency Transformers, Galvanically Isolated   |
| Energy Management                                  | Via SILRES monitoring portal   |
| Warranty (5)                                       | 10 Years Standard; Extended Warranty Optional  |
|  | 15 156.15 Standard, Extended Hamaniy Optional  |
| Compliances  |  |
| Compliance   | IS 16169/ IEC 62116, IS 16221 / IEC 62109 - 1, IEC 62109 - 2, IEC 61683:1999, IEC 60529, IEC |

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

61000-3-2, 3-3, 3-11, 6-1, 6-3, IEC 60068-2-1, 2-2, 2-14, 2-30, 2-78

Please refer to our warranty T&Cs available on  $\underline{\text{www.feniceenergy.com}}$ 

 $Specifications \ subject \ to \ change \ without \ notice; \ please \ ensure \ you \ are \ using \ the \ most \ recent \ update \ found \ at \ web: \ \underline{www.feniceenergy.com}$ 

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#### **SILRES Energy Solutions Private Limited**

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

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

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

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