

# FRECON

## SP100

### Solar Hybrid Inverter



FRECON ELECTRIC (SHENZHEN) CO.,LTD



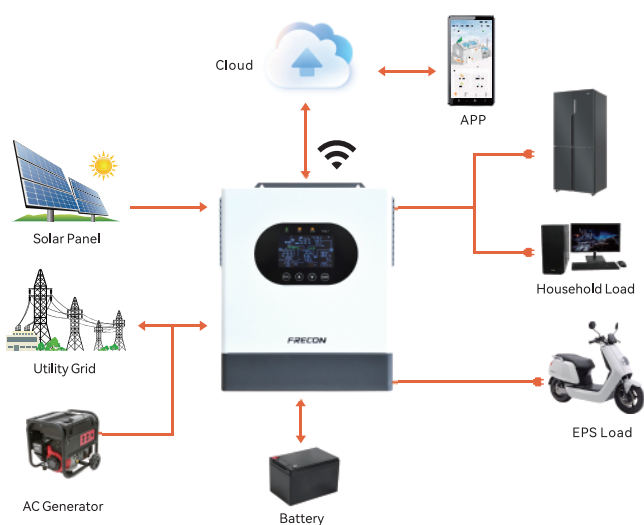
# SP100

## SOLAR HYBRID INVERTER

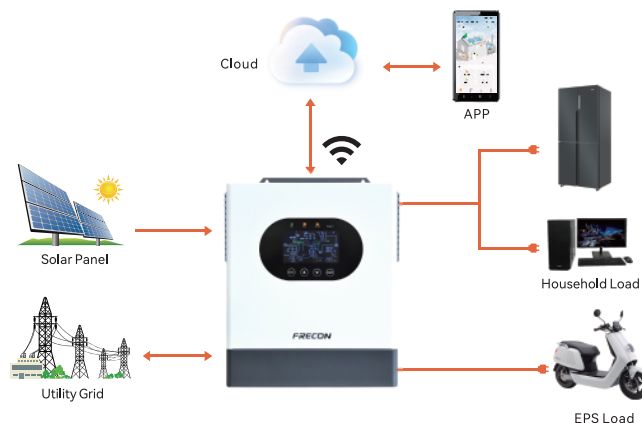
### ■ Features

-  Support PV feed in to grid (but subject to local policies)
-  Configurable priority between grid and PV
-  Standard WiFi module for mobile APP monitoring
-  Support operation without battery
-  Supports lithium battery activation function
-  Wide input PV voltage range

### Solar System Connection



### Support Operation Without Battery



Note: Only SP100-6500-48/SP100-12000-48 Support EPS Load Output



| Model                        | SP100-2000-12                                | SP100-3600-24 | SP100-6500-48 | SP100-12000-48                  |
|------------------------------|----------------------------------------------|---------------|---------------|---------------------------------|
| Battery                      |                                              |               |               |                                 |
| Normal Voltage               | 12VDC                                        | 24VDC         | 48VDC         | 48VDC                           |
| Battery Type                 | Lithium/Lead-acid Battery                    |               |               |                                 |
| Max.PV Charge Current        | 100A                                         | 100A          | 120A          | 160A                            |
| Max.AC Charge Current        | 100A                                         | 100A          | 120A          | 160A                            |
| Max. Hybrid Charge Current   | 100A                                         | 100A          | 120A          | 160A                            |
| AC Output                    |                                              |               |               |                                 |
| Rated Capacity               | 2000VA/2000W                                 | 3600VA/3600W  | 6500VA/6500W  | 12000VA/12000W                  |
| Surge Power                  | 4000VA                                       | 7200VA        | 12000VA       | 24000VA                         |
| Wave Form                    | Pure Sine Wave                               |               |               |                                 |
| No.Of AC Output              | 1                                            | 1             | 2             | 2                               |
| Voltage                      | 208VAC/220VAC/230VAC/240VAC                  |               |               | 220VAC/230VAC/240VAC            |
| Frequency                    | 50 Hz/60 Hz                                  |               |               |                                 |
| Switch Time                  | 10 ms(APP/UPS Mode)/20 ms(GEN Mode)          |               |               |                                 |
| Max.Efficiency(Battery Mode) | 91%                                          | 92%           | 94%           | 94%                             |
| Parallel Quantity            | NA                                           |               |               |                                 |
| Solar Input                  |                                              |               |               |                                 |
| NO.Of MPPT                   | 1                                            | 1             | 1             | 2                               |
| Max. Input Power             | 3000W                                        | 5000W         | 9000W         | 15000W                          |
| Max.Open Circuit Voltage     | 450VDC                                       | 500VDC        | 500VDC        | 500VDC                          |
| Max.Input Current            | 18A                                          | 18A           | 27A           | 22.5A+22.5A/Single PV Input 27A |
| MPPT Voltage Range           | 30~400VDC                                    | 40~450VDC     | 60~450VDC     | 60~450VDC                       |
| PV Start-up Voltage          | 40VDC                                        | 60VDC         | 80VDC         | 80VDC                           |
| AC Input                     |                                              |               |               |                                 |
| Rated Input Voltage          | 230VAC                                       | 230VAC        | 230VAC        | 230VAC                          |
| Input Voltage Range          | 90~280VAC(APP/GEN Mode)/170~264VAC(UPS Mode) |               |               |                                 |
| Input Frequency Range        | 50Hz/60Hz (Auto Adaptive)                    |               |               |                                 |
| General Data                 |                                              |               |               |                                 |
| HMI                          | LCD                                          |               |               |                                 |
| Interface                    | BMS(CAN/RS485)/RS232                         |               |               |                                 |
| External Module              | Wi-Fi                                        |               |               |                                 |
| Ingress Protection           | IP21                                         |               |               |                                 |
| Operation Temperature        | -10~60℃                                      |               |               |                                 |
| Storage Temperature          | -15~60℃                                      |               |               |                                 |
| Relative Humidity            | 5%~95%(Non-condensing)                       |               |               |                                 |
| Max.Operation Altitude       | 4000m( Derating above 2000m )                |               |               |                                 |
| Certificate                  | RoHS/CE                                      |               |               |                                 |
| Dimensions(H*W*D)            | 351*277*109mm                                | 440*292*106mm | 411*343*134mm | 516*422*134mm                   |
| Net Weight                   | 4.3kg                                        | 7.3kg         | 8.0kg         | 14.3kg                          |



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