



## **PREMIUM PLUS** **1200 / 2000**

- Automatic line-to-battery switchover
- Selectable input voltage ranges
- Rack Tower design for flexible placement
- Built-in enhanced charger
- High efficient DC-to-AC conversion, minimizing energy loss
- Intelligent 3-stage charger control for efficient charging
- Provide discharge, overcharge, over-temperature, overload and short-current protection
- Auto restart while AC recovery
- 0/10/15/20/25 charger current selectable for PREMIUM PLUS 1200
- 0/5/10/15/20 charger current selectable for PREMIUM PLUS 2000
- User friendly LCD-LED indications
- Different shut down battery voltage according to different load level
- Charger temperature compensation

**MAX. SOLAR  
CHARGE CURRENT**

**65A**

**MPPT SOLAR INVERTER**  
**FOR HOME & OFFICE**  
**SMART POWER SOURCE**



| NS MODEL NAME                         |                  | PREMIUM PLUS 1200   | PREMIUM PLUS 2000                      |
|---------------------------------------|------------------|---|--|
| CAPACITY                              | VA/W             | 1200VA/1000W  | 2000VA/1800W                           |
| NOMINAL BATTERY VOLTAGE               |                  | 12Vdc   | 24Vdc                                  |
| <b>LINE MODE</b>                      |                  |   |  |
| INPUT                                 | Nominal Voltage  | 230Vac  |  |
|                                       | Voltage Range    | Wide mode: 90VAC-280VAC(default)<br>Narrow mode: 170VAC-280VAC                    |  |
|                                       | Normal Frequency | 50/60Hz   |  |
| OUTPUT                                | Voltage          | 230Vac  |  |
|                                       | Frequency        | Follow the Utility  |  |
|                                       | Output Waveform  | Follow the Utility  |  |
| EFFICIENCY                            |                  | >96%(full R load, battery full charged)   |  |
| TRANSFER TIME                         |                  | 15ms Typical, 40ms Max.   |  |
| <b>BATTERY MODE</b>                   |                  |   |  |
| OUTPUT                                | Voltage          | 230Vac(+10%/-18%)   |  |
|                                       | Frequency        | 50/60Hz(Auto detection)   |  |
|                                       | Output Waveform  | Modified sine-wave  |  |
| EFFICIENCY                            |                  | >80%  |  |
| OVERLOAD PROTECTION                   |                  | 1min@ >110%,20s@>120%,0s@>150%  |  |
| PROTECTION                            |                  | Discharge, over-charged, over-loading, short-circuit, over-temperature protection |  |
| <b>AC CHARGER</b>                     |                  |   |  |
| CHARGING ALGORITHM                    |                  | 3-stage charging  |  |
| AC CHARGE CURRENT                     |                  | 20A default,0/10/15/20/25A (selectable)   | 15A default,0/5/10/15/20A (selectable) |
| FLOATING CHARGING VOLTAGE             |                  | 13.7VDC   | 27.4VDC                                |
| OVER CHARGING VOLTAGE                 |                  | 16VDC   | 32VDC                                  |
| <b>SOLAR CHARGER(MPPT)</b>            |                  |   |  |
| MAX. Solar Array Open Circuit Voltage |                  | 100VDC  |  |
| MPPT Range @ Operating Voltage        |                  | 15~80V  | 30~80V                                 |
| MAX. Solar Charge Current             |                  | 65A   |  |
| MAX.Solar Array Power                 |                  | 660W  | 1320W                                  |
| <b>Physical</b>                       |                  |   |  |
| Dimension(W*H*D)                      |                  | 309.5mm(W)* 244mm(H) *96mm(D)   |  |
| Weight                                |                  | 2.5 kg  | 2.7 kg                                 |
| <b>Environmental</b>                  |                  |   |  |
| Operating Temperature                 |                  | 0°C to 55°C   |  |
| Operating Relative Humidity           |                  | 5 to 95% NON-CONDENSING   |  |

*New Source Electronic Company*