



PURSUIT OF PERFECTION



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# SOLAR MAX



## Solar Inverter

600W - 4KW

Solar Max solar inverter is especially designed for solar off-grid application featuring high efficiency, extremely low status consumption power as well as outstanding reliability. Combined with outstanding overload capability, this inverter could comfortably power large load such as air conditioner, refrigerators and water pumps at tropical regions.

- Pure sine wave output
- Peak efficiency up to 94%
- Extremely low status consumption power
- Outstanding peak power, suitable for all home appliances
- PWM solar charge controller is built inside of 600W and 1KW model (SC600L, SC600M, SC1000M)
- Built in auxiliary contact
- Nearly silent operation
- Insect proof design



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RSC



LMD

Load management  
device



|                |       |        |         |          |          |          |          |          |
|----------------|-------|--------|---------|----------|----------|----------|----------|----------|
| Model No.      | 12VDC | SC600L |         | CPI1000L | CPI1500L | CPI1200L |          |          |
|                | 24VDC | SC600M | SC1000M |          | CPI1500M | CPI2000M | CPI3000M | CPI4000M |
|                | 48VDC |        |         |          |          | CPI2000S | CPI3000S | CPI4000S |
| PWM controller |       | YES    | YES     | NO       | NO       | NO       | NO       | NO       |

## Electrical

|                                       |       |                                                                   |      |      |         |              |      |      |
|---------------------------------------|-------|-------------------------------------------------------------------|------|------|---------|--------------|------|------|
| Nominal voltage (VDC)                 |       | 12 / 24                                                           | 24   | 12   | 12 / 24 | 12 / 24 / 48 |      |      |
| Power 30mins @ 25°C                   |       | 600                                                               | 1000 | 1000 | 1500    | 2000         | 3000 | 4000 |
| Cont. power @ 25°C (W)                |       | 600                                                               | 1000 | 1000 | 1300    | 1900         | 2700 | 3600 |
| Cont. power @ 40°C (W)                |       | 480                                                               | 800  | 1000 | 1200    | 1700         | 2200 | 3000 |
| Cosφ                                  |       |                                                                   |      |      | 0.9-1   |              |      |      |
| Surge                                 |       | 300%                                                              |      |      |         |              |      |      |
| Output voltage (VAC)                  |       | 240, 230V, 220, 208 ± 2% or 127, 120, 110, 100 ± 2%               |      |      |         |              |      |      |
| Output frequency                      |       | 50Hz or 60Hz ±0.5%                                                |      |      |         |              |      |      |
| Efficiency (MAX)                      | 12VDC | 89%                                                               |      |      |         |              |      |      |
|                                       | 24VDC | 92%                                                               |      |      |         |              |      |      |
|                                       | 48VDC | 94%                                                               |      |      |         |              |      |      |
| Crest factor                          |       | 3:1                                                               |      |      |         |              |      |      |
| THD                                   |       | < 3%                                                              |      |      |         |              |      |      |
| Zero load power (W)                   |       | 7.4 / 17                                                          | 18   | 12.5 | 13      | 14           | 15   | 18   |
| Zero load power (power save mode) (W) |       | 2 / 4                                                             | 4.5  | 3    | 3.5     | 3.5          | 3.75 | 4.5  |
| Battery fuse                          |       | SC600L / SC100M: 30A / 32VDC * 3 PCSP; SC600M: 0A / 32VDC * 3 PCS |      |      |         |              |      |      |
| Output circuit breaker                |       | N/A                                                               | N/A  | 10A  | 10A     | 15A          | 30A  | 30A  |
| Overload protection                   |       | auto disconnect                                                   |      |      |         |              |      |      |
| Shortcut protection                   |       | auto disconnect                                                   |      |      |         |              |      |      |

## Solar Charge controller

|                                   |                                  |     |
|-----------------------------------|----------------------------------|-----|
| Battery type                      | lead acid battery                | N/A |
| Max PV open circuit voltage (Voc) | 12V : 25VDC<br>24V : 50VDC       | N/A |
| Recommended PV (Vmp)              | 12V : 16-19VDC<br>24V : 32-37VDC | N/A |
| Current max                       | 20A    10A                       | N/A |
| Temperature compensation          | automatic, -4mV / °C / Cell      | N/A |
| Charging algorithm                | TBB Premium II                   | N/A |

## Other Data

|                   |                         |                                          |
|-------------------|-------------------------|------------------------------------------|
| Battery connector | M6 x 2                  | M8 x 2                                   |
| Enclosure         | steel with powder paint |                                          |
| Dimmension (mm)   | 400 x 236 x 89          | 505.5 x 240 x 134.5    538.9 x 228 x 180 |
| Net weight (kgs)  | 9    10.6               | 15.5    17    18    21    24             |
| Cooling           | forced fan              | /                                        |
| Protection        | IP20                    |                                          |
| Dry contact       | /                       | Battery low                              |

## Standard

|              |                                                         |                                                             |
|--------------|---------------------------------------------------------|-------------------------------------------------------------|
| Safety / EMC | IEC62109-1, IEC62109-2<br>/ EN61000-6-1,<br>EN61000-6-3 | EN55022, EN55024 /<br>EN61000-3-2, EN61000-3-3<br>EN60950-1 |
|--------------|---------------------------------------------------------|-------------------------------------------------------------|



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