

## Solar King Inverter



High efficiency Grid Tie Inverter. Converting sunlight into electricity for home/industrial applications and powering up our world with free solar energy.

### Features:

- Anti-Islanding detection methods: Frequency, voltage and utility impedance
- Built-in MPPT (Maximum Power Point Tracking) function
- Strictly adheres to Australian ISO 9001 and ISO 14001 certified environmental standards
- Firmware flash capability
- Residual Current Device, current transformer monitoring
- 5-year guarantee against any manufacturing defects



Clean Energy Council



Quality  
Endorsed  
Company

## Specifications

| Model                                 | SLK-1500  | SLK-2000    | SLK-3000    | SLK-4000                    | SLK-6000                 |
|---------------------------------------|---|-------------|-------------|-----------------------------|--------------------------|
| <b>Input Data</b>                     |   |             |             |                             |                          |
| Maximum Input power                   | 1750W   | 2340W       | 3510W       | 4700W                       | 6500W                    |
| PV OPEN voltage                       | 500VDC  |             |             |                             | 600VDC                   |
| Nominal DC voltage                    | 360~400V  |             |             |                             |                          |
| MPPT voltage range                    | 150V to 500V +/-5%  |             |             |                             | 150V to 600V +/-5%       |
| System start-up voltage               | 100 +/-5%   |             |             |                             |                          |
| Working voltage                       | 100 +/-5% ~ 500 -5% +0%V  |             |             |                             | 100 +/-5% ~ 600 -5% +0%V |
| Initial feeding voltage               | 150V +/-5%  |             |             |                             |                          |
| Max. input current                    | 7.5ADC  | 10ADC       | 15ADC       | 20ADC                       | 25ADC                    |
| Full rating working range             | 200V to 500V  |             |             | 250V to 500V                | 250V to 600V             |
| Shutdown voltage                      | 80V typical   |             |             |                             |                          |
| DC voltage ripple                     | < 10%   |             |             |                             |                          |
| DC insulation resistance              | > 8M ohm  |             |             |                             |                          |
| DC switch                             | ON/OFF 20A  |             |             |                             | ON/OFF 30A               |
| DC connector                          | Tyco or MC contact (1 pair)-cable type  |             |             | Tyco or MC contact (3 pair) |                          |
| Attached DC connector                 | Tyco or MC contact (1 pair)   |             |             |                             |                          |
| <b>Output Data</b>                    |   |             |             |                             |                          |
| Nominal output power                  | 1500W   | 2000W       | 3000W       | 4000W                       | 6000W                    |
| Maximum output power                  | 1650W   | 2200W       | 3300W       | 4400W                       | 6000W                    |
| Operational voltage range             | 198V, minimum 256V, maximum   |             |             |                             |                          |
| Operational normal voltage            | 230Vac  |             |             |                             |                          |
| Operational frequency range           | 50/60Hz, auto selection 47.5≤f <sub>50</sub> ≤50.2 for 50Hz 59.3≤f <sub>60</sub> ≤60.5 for 60Hz |             |             |                             |                          |
| Nominal output current                | 6.6A  | 8.7A        | 13.0A       | 17.4A                       | 26.1A                    |
| O/P current distortion Power Factor   | THD<5%, each harmonics< 3%  |             |             |                             |                          |
| DC current injection                  | > 0.99  |             |             |                             |                          |
| Internal power consumption            | <0.5% of rated inverter output current  |             |             |                             |                          |
| Standby power (at night)              | < 7W  |             |             |                             |                          |
| Minimum conversion efficiency (DC/AC) | < 0.1W  |             |             |                             |                          |
| Maximum Conversion Efficiency (DC/AC) | > 90% Under input voltage >210V, load>20%   |             |             |                             |                          |
| European Efficiency                   | > 94%   | > 95%       | > 95%       | > 96%                       | > 96%                    |
| GFCI threshold                        | > 93%   | > 94%       | > 94%       | > 95%                       | > 95%                    |
| Ground current detection range        | See ground fault current detection  |             |             |                             |                          |
| Ground current detection frequency    | 0 ~ 500mA   |             |             |                             |                          |
| Protection degree                     | 0 ~ 700Hz   |             |             |                             |                          |
| Operation temperature                 | IP 65 or IP43   |             |             |                             |                          |
| Humidity                              | -25 to 55° C  |             |             |                             |                          |
| Heat Dissipation                      | 0 to 95%, non-condensing  |             |             |                             |                          |
| Acoustic noise level                  | Convection  |             |             |                             |                          |
| Altitude                              | < 40dB, A-weighted, frequency up to 20kHz   |             |             |                             |                          |
| Physical : W x D x H (mm)             | Up to 3000m without power derating, 5° C derated for each additional 500m                       |             |             |                             |                          |
| Physical : Weight (kg)                | 352x300x133   | 352x300x133 | 352x300x143 | 550 x 300 x 133             | 550 x 420 x 143          |
|                                       | 14  | 14          | 14          | 21                          | 27                       |

