

## Technical Specifications:

|  |  | SG 50KU  |
|--|--|--|
| <b>DC SIDE DATA</b>                            |  |  |
| Max. DC Voltage                                |  | 600Vdc   |
| MPP Voltage Range                              |  | 300~550Vdc   |
| Max. DC Power                                  |  | 55kWp  |
| Max. Input Current                             |  | 180A   |
| Recommend PV Array Open Circuit Voltage        |  | 450V   |
| Number of MPP Trackers/Strings Per MPP Tracker |  | 1/1  |
| <b>AC SIDE DATA</b>                            |  |  |
| Rated Output Power                             |  | 55kW   |
| Rated Grid Voltage                             |  | 480Vac   |
| Grid Voltage Range                             |  | 422~528Vac   |
| Rated Grid Frequency                           |  | 60Hz   |
| Grid Frequency Range                           |  | 59.3~60.5Hz  |
| Output Current THD                             |  | <5%  |
| DC Current Injection                           |  | <0.5% of rated inverter output current                           |
| Power Factor                                   |  | 0.95 ( lagging ) ~0.95 ( leading )                               |
| <b>SYSTEM</b>                                  |  |  |
| CEC Weighted Efficiency                        |  | 96.2% ( with transformer )                                       |
| Protection Degree                              |  | IP20 ( indoor ) <span style="color: orange;">TYPE 1</span>       |
| Power Consumption at Night                     |  | <30W   |
| Operating Temperature                          |  | -25°C~55°C <span style="color: orange;">-13~+131°F</span>        |
| Cooling Method                                 |  | controlled forced-air cooling                                    |
| Relative Humidity                              |  | 0~95%, non-condensing  |
| Max. Working Altitude                          |  | 2000m  |
| <b>DISPLAY AND COMMUNICATIONS</b>              |  |  |
| Display  |  | LCD  |
| Standard Comm. Interfaces                      |  | RS485  |
| Optional Comm. Interfaces                      |  | Ethernet/GPRS  |
| <b>MECHANICAL DATA</b>                         |  |  |
| Dimensions ( WxHxD )                           |  | 820x1964x646mm <span style="color: orange;">32x77x25 inch</span> |
| Net Weight                                     |  | 640kg <span style="color: orange;">1411 lbs</span>               |

## Certificates:



## Circuit Diagram:

