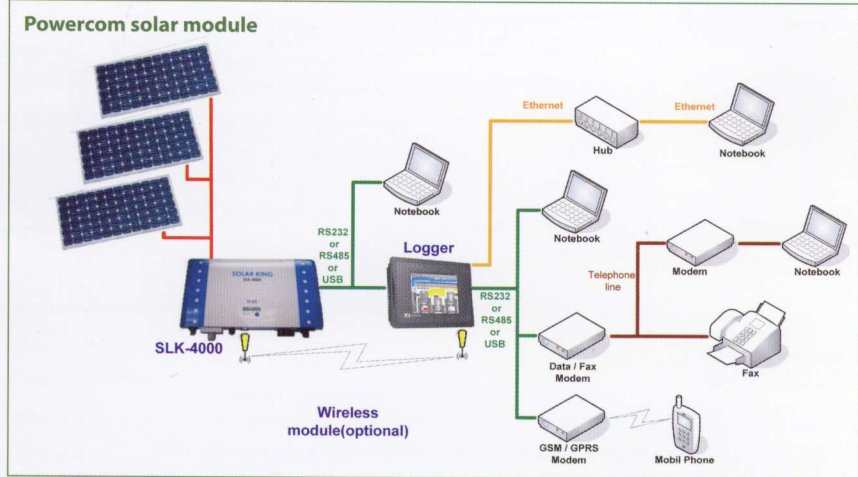
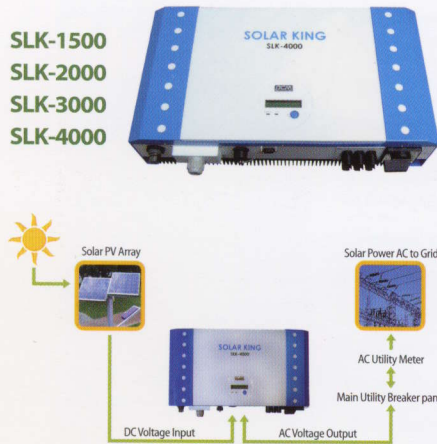


PV Inverter

Solar King (Grid-Tie Technology)

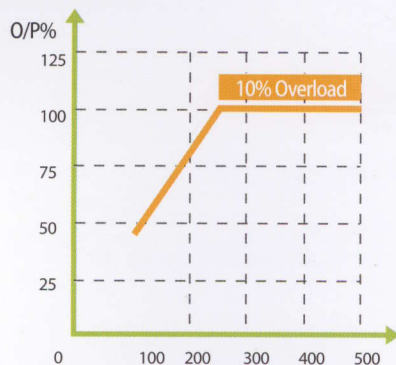


Model	SLK-1500	SLK-2000	SLK-3000	SLK-4000
Input Data				
Maximum Input power	1875W	2500W	3750W	5000W
Max. input voltage	500VDC			
Maximum PV open voltage	360~400V			
Nominal DC voltage	150V to 500V +/-5%			
MPPT voltage range	100 +/-5%			
System start-up voltage	100 +/-5% ~ 500 -5% +0%V			
Initial feeding voltage	150V +/-5%			
Max. input current	7.5ADC	10ADC	15ADC	20ADC
Full rating working range	250V to 500V			
Shutdown voltage	80V typical			
DC voltage ripple	< 10%			
DC insulation resistance	> 8M ohm			
DC switch	ON/OFF 20A			
DC connector	Tyco-contact (1 pair)			
Attached DC connector	Tyco-contact (1 pair)-cable type			Tyco-contact (3 pair)

Model	SLK-1500	SLK-2000	SLK-3000	SLK-4000
Output Data				
Nominal output power	1500W	2000W	3000W ⁷	4000W
Maximum output power	1650W	2200W	3300W ⁸	4400W
Operational voltage range ¹	198V, minimum 256V, minimum			
Operational normal voltage	230Vac			
Operational frequency range	50/60Hz, auto selection $47.5 \leq f_{50} \leq 50.2$ for 50Hz ² $59.3 \leq f_{60} \leq 60.5$ for 60Hz ³			
Nominal output current	6.6A	8.7A	13A	17.4A
O/P current distortion ⁴	THD<5%, each harmonics< 3%			
Power Factor	> 0.99			
DC current injection	<0.5% of rated inverter output current			
Output Data				
Internal power consumption	< 7W			
Standby power (at night)	< 0.1W			
Minimum conversion efficiency (DC/AC)	> 90% Under input voltage >210V, load>20%			
Maximum Conversion Efficiency (DC/AC) ⁵	> 94%	> 96%		
European Efficiency	> 93%	> 95%		
GFCI threshold ⁶	See ground fault current detection			
Ground current detection range	0 ~ 500mA			
Ground current detection frequency	0 ~ 700Hz			
Protection degree	IP 65 or IP43			
Operation temperature	-25 to 55° C			
Humidity	0 to 95%, non-condensing			
Heat Dissipation	Convection			
Acoustic noise level	< 40dB, A-weighted, frequency up to 20kHz			
Altitude	Up to 3000m without power derating, 5° C derated for each additional 500m			
Physical : W x D x H (mm)	380x300x133	380x300x133	380x300x143	550 x 300 x 133
Physical : Weight (kg)	14	14	14	21
Shipping : W x D x H (mm)	495x465x285	495x465x285	495x465x285	665 x 465 x 285
Shipping : Weight (kg)	16	16	16	23

The relation of input DC voltage and output power is shown in figure. Once input V is less than 250V, the relation of I/P V and load % is : $\text{Load\%} = 0.4 \times V$

Load curve



- 1.VDE0126-1-1, it is -20%/ +15%
- 2.Based on the limit of VDE0126-1-1
- 3.Based on limit of IEEE1547
- 4.Under utility voltage THD<3%, reference IEEE1547, EN61000-3-2
- 5.under input voltage $\geq 400V$, full rated output power, 25°C ambient
- 6.According to VDE0126-1-1 requirement
- 7.Based on the output voltage is higher than 200Vac
- 8.Based on the output voltage is higher than 220Vac

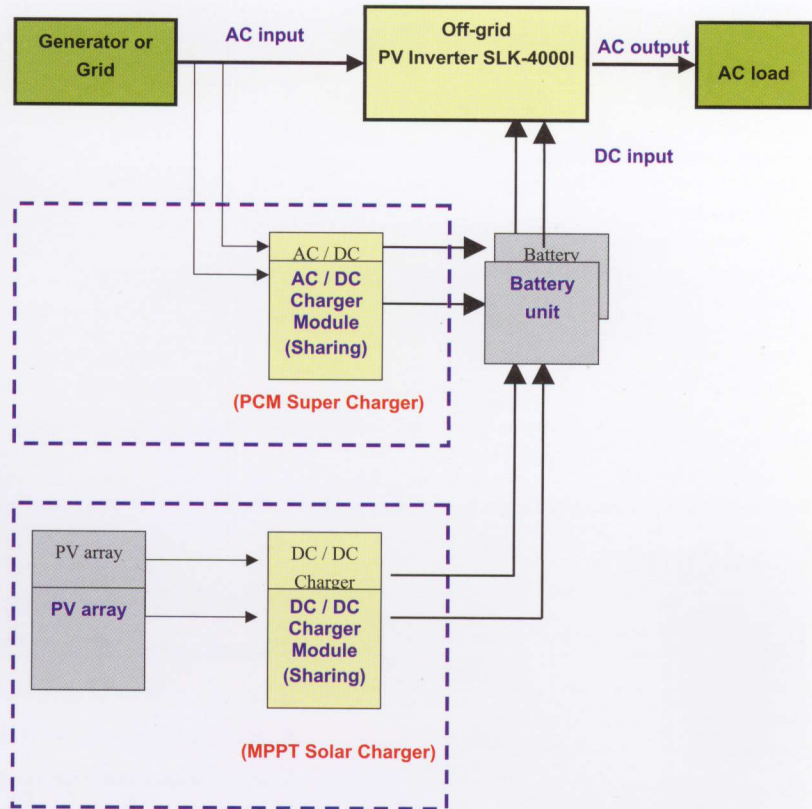
PV Inverter

Solar King (Off-Grid Technology)

1. SLK-4000I designed in stand alone system for your operation.
2. Mini weight and size with more power output.



System diagram



Feature

- > Three stages charging voltage equalization by timing for maximizing the battery lifetime
- > Large charging capacity design (10A for 48Vdc mode,) for shortening the charging time(20X)
- > Selectable charging currents based on connected battery capacity for extending battery lifetime with optimized charging current
- > Wider input voltage range from 90Vac to 280Vac for universal input
- > High AC to DC converting efficiency design (higher than 85%)
- > Smart fan control -Build-in fan control firmware for controlling fan on/off status bases on charger operating mode.
When the battery is charged, the fan will stop to reduce the noise and also extend the fan lifetime.
- > The super charger can modulation , the super chargers can parallel operated in good current sharing performance.

Model	SLK-4000I
AC Output	
Nominal output power	4000W
Nominal DC output voltage	208Vac / 240Vac
Maximum efficiency (TYP)	91 - 93%
AC output voltage range	(187~230Vac) / (216~264Vac)
Waveform	Sinusoidal
Operational frequency range	50 - 60Hz
Nominal output current	19.2A/16.7A
THD V (%)	<3%
Power Factor	0.8 to 1
Frequency Regulation	+/-0.1Hz
Power consumption when standby	< 7W
Power consumption with no load	< 15W
Dimension (mm) W x H x D	550 x 300 x 133 mm
Weight (kg)	< 25kg
Ambient temperature	-25°C to 55°C
Protection degree (DIN EN60529)	IP65 or IP21
DC input	
Nominal input voltage	48Vdc
DC Input Voltage range	40Vdc ~70Vdc
Maximum DC Power at Rated Current	110A