



### Specifications

#### Input Data

• Maximum input power	4700W
• Norminal DC voltage	400V
• Maximum input voltage	500VDC
• MPPT voltage range	150V to 500V ±5%
• System start-up voltage	100V ±5%
• Working voltage range	100 ±5% ~ 500 -5% +0%V
• Initial feeding voltage	150V ±5%
• Full rating working range	250V to 500V
• Max. input current	20ADC
• 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 (3-pair)

#### Output data

• Norminal output power	4000W
• Maximum output power	4400W (limited to 10mins @50°C ambient)
• Operational voltage range	190V (min), 270V (max)
• Operational normal voltage	230 Vac
• Operational frequency range	50Hz
	49.8 < f50 < 50.2 for 50Hz
• Nominal output current	17.4A
• O/P current distortion	THD < 5%, each harmonics < 3%
• Power factor	> 0.99
• DC current injection	< 0.5% of rated inverter output current

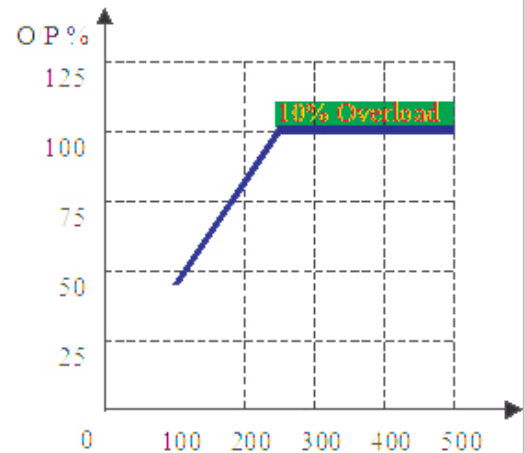
#### General Data

• Internal power consumption	< 7W
• Standby power (at night)	< 0.1W
• Minimum conversion efficiency	> 90%, under input voltage > 210V, load >20%
• Maximum conversion efficiency (DC/AC) (1)	> 96%
• European efficiency	> 95%
• GFCI threshold (2)	See ground fault current detection
• Ground current detection range	0 ~ 500mA
• Ground current detection frequency	0 ~ 700Hz
• Protection degree	IP65
• 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
• Dimension	550 x 300 x 133 (product) / 645 x 465 x 285 (packaging)
• Weight (net/gross)	21kg (product) / 23kg (packaging)

(1)- Under input voltage >= 400V, full rated output power, 25°C ambient.

(2)- According to DK5940 requirement.

\*Load Curve



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 :  $Load\% = 0.4 \times V$

1. This is voltage range that inverter will start to feed power to grid.
2. The DC resistance requirement for positive or negative terminal to chassis ground
3. In VDE0126-1-1, it is  $i_a1V20\% +15\%$ . DK5940, RD1663 are also available.
4. Based on the limit of VDE0126-1-1
5. Based on limit of IEEEE929
6. Under the output voltage is 230VAC
7. Under utility voltage THD < 3%
8. under input voltage >= 400V, full rated output power, 25°C ambient
9. According to VDE0126-1-1 requirement

**Warranty Notice:** 5 year on materials

EAN : TBA

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