

Type	Omniksol-3k-TL2	Omniksol-4k-TL2	Omniksol-5k-TL2
Input (DC)			
Max. PV Power	3400W	4500W	5000W
Max DC Voltage	590V	590V	590V
Nominal DC Voltage	360V	360V	360V
Operating MPPT Voltage Range	120 - 550V	120 - 550V	120 - 550V
MPPT Voltage Range at Nominal Power	150 - 500V	200 - 500V	200 - 500V
Start up DC Voltage	150V	150V	150V
Turn off DC Voltage	120V	120V	120V
Max. DC Current	12A/12A	16A/16A	18A/18A
Max. Short Circuit Current for each MPPT	16A/16A	20A/20A	20A/20A
Number of MPP trackers	2	2	2
Max. Input Power for each MPPT	2000W	2600W	3000W
Number of DC Connection for each MPPT	1/1	1/1	1/1
DC Connection Type	MC4 connector	MC4 connector	MC4 connector
Output (AC)			
Max. AC Apparent Power	3300VA	4400VA	5000VA*
Nominal AC Power(cos phi = 1)	3000W	4000W	4600W**
Nominal Grid Voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V
Nominal Grid Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Max. AC Current	14.4A	19.0A	22.0A
Grid Voltage Range*	185-276V	185-276V	185-276V
Grid Frequency Range*	45-55Hz/55-65Hz	45-55Hz/55-65Hz	45-55Hz/55-65Hz
Power Factor	0.9 c...0.9 i	0.9 c...0.9 i	0.9 c...0.9 i
Total Harmonic Distortion (THD)	<2%	<2%	<2%
Feed in Starting Power	30W	30W	30W
Night time Power Consumption	<1W	<1W	<1W
Standby Consumption	6W	6W	6W
AC Connection Type	Plug-in connector	Plug-in connector	Plug-in connector
Efficiency			
Max. Efficiency (at 360Vdc)	98.2%	98.2%	98.2%
Euro Efficiency (at 360Vdc)	97.3%	97.5%	97.5%
MPPT Efficiency	99.9%	99.9%	99.9%
Safety and Protection			
DC Insulation Monitoring	Yes		
DC Switch	Optional		
Residual Current Monitoring Unit (RCMU)	Integrated		
Grid Monitoring with Anti-islanding	Yes		
Protection Class	I (According to IEC 62103)		
Overvoltage Category	PV II / Mains III (According to IEC 62109-1)		

Type	Omniksol-3k-TL2	Omniksol-4k-TL2	Omniksol-5k-TL2
Reference Standard			
Safety Standard	EN 62109, AS/NZS 3100		
EMC Standard	EN 61000-6-1, EN 61000-6-3, EN 61000-6-2, EN 61000-6-4, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12		
Grid Standard	VDE-AR-N-4105, VDE 0126-1-1, RD1699, CEI0-21, C10/11, G83/2, UTE C15-712-1, AS4777, NB/T32004		
Physical Structure			
Dimensions (WxHxD)	352x421x162.5mm		
Weight	16.5kg		
Environmental Protection Rating	IP 65 (According to IEC 60529)		
Cooling Concept	Natural convection		
Mounting Information	Wall bracket		
General Data			
Operating Temperature Range	-25°C to +60°C(derating above 45°C)		
Relative Humidity	0% to 100%, no condensation		
Max. Altitude (above sea level)	2000m		
Noise Level	< 40dB		
Isolation Type	Transformerless		
Display	3 LED, Backlight,20 x 4 Character LCD		
Data Communication Interfaces	RS485 / WiFi / GPRS optional		
Guarantee	5 - 25 years optional		

*The AC voltage and frequency range may vary depending on specific country grid

**4600VA, 4600W with VDE-AR-N-4105