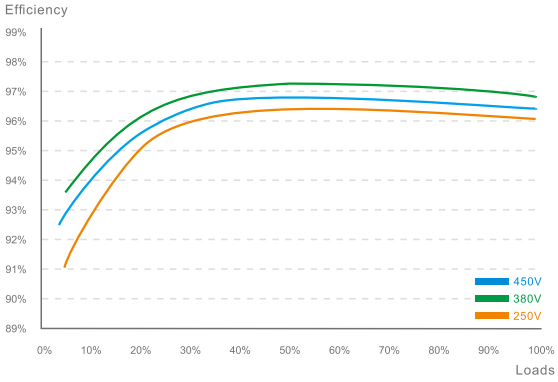
SUNLEAF Series 1.1K-6KTL

Single Phase String Inverter

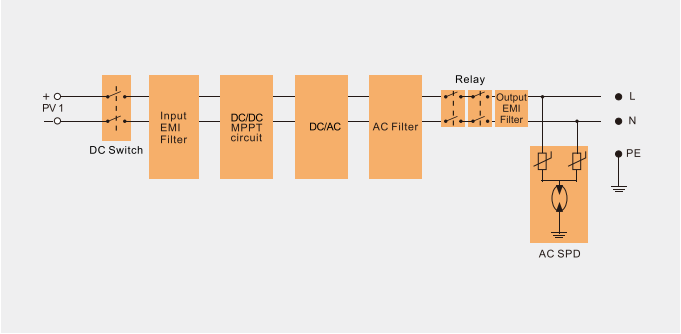
Features

- Natural cooling, IP65 protection grade
- LCD screen and LED status indicator display
- Max. efficiency up to 97.6%
- RS232/WIFI/GPRS monitoring
- Support double glass PV module
- DC 1.3 times of max. power input, AC 1.1 times of rated power output
- Built-in export limit function (Opt.)

5000TL Efficiency Curve



5000TL Topology



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SUNLEAF

Technical data	1100TL	1500TL	2000TL	2500TL	3000TL	3600TL	4000TL	5000TL	6000TL
Input (DC Side)									
Max. DC input power (W)	1430	1950	2600	3250	3900	4680	5200	6500	7800
Max. DC voltage (Vdc)	450	450	450	500	500	500	500	500	500
Start voltage (Vdc)	60	150	150	150	150	150	150	150	150
MPPT voltage range (Vdc)	50~450	100~450	100~450	100~500	100~500	100~500	100~500	100~500	100~500
Number of inputs	1	1	1	1	1	2	2	2	2
Number of MPPT	1	1	1	1	1	1	1	1	1
Max. input current (A)	12.5	12.5	12.5	12.5	12.5	25	25	25	25
Output (AC Side)									
Rated output power (W)	1100	1500	2000	2500	3000	3600	4000	5000	6000
Max. output power (VA)	1210	1650	2200	2750	3300	3960	4400	5500	6600
Rated output current (A)	4.7	6.5	8.6	10.8	13	15.7	17.4	21.5	26
Max. output current (A)	5.3	7.9	10.5	12.5	15	17.3	20	25	27.5
Rated output voltage (Vac)	230	230	230	230	230	230	230	230	230
Output voltage range (Vac)*	170~280	170~280	170~280	170~280	170~280	170~280	170~280	170~280	170~280
Grid frequency range (Hz)*	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5	50/60±5
Power factor (cos ϕ)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)	0.8 (leading)~ 0.8 (lagging)
THDI	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency									
Max. efficiency	97.0%	97.0%	97.0%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
Euro. efficiency	96.5%	96.5%	96.5%	96.8%	96.8%	96.8%	97.0%	97.1%	97.1%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protections									
Built-in protections	DC Reverse Polarity, Short Circuit, Output Over Current, Output Over Voltage, Insulation Resistance Monitoring, Residual Current Detection, Surge Protection, Anti-Island Protection, Over Temperature Protection								
Lightning protection	DC Type II / AC Type II								
General Data									
Operating temperature (°C)	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60	-25~+60
Noise [dB (A)]	≤25	≤25	≤25	≤25	≤25	≤25	≤25	≤25	≤25
Night power consumption (W)	<1	<1	<1	<1	<1	<1	<1	<1	<1
Electrical isolation	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Degree of protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Communication:RS232/ WiFi/GPRS	yes/opt/opt	yes/opt/opt	yes/opt/opt	yes/opt/opt	yes/opt/opt	yes/opt/opt	yes/opt/opt	yes/opt/opt	yes/opt/opt
Dimension (W*D*H mm)	290*140*295	290*140*295	290*140*295	350*160*350	350*160*350	360*160*390	360*160*390	360*160*390	360*160*390
Weight (kg)	7.5	7.5	7.5	12	12	14.5	14.5	14.5	15.7

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