# 户外型太阳能并网逆变器

## 产品优势 Product Advantage

### OP–PSI–1500TL

□紧凑的结构和高功率密度设计；
□实时最大功率跟踪的高速 MPPT，超强的能量捕获功能；
□无变压器型设计，最高效率 96.5%( 欧洲效率 95.5%)；
□高过载能力，大多数情况下可以 1650W 输出；
□符合国际上各种并网标准的要求；
□纯正弦波输出；
□ RS–485/RS–232 通讯接口；
□多种语言显示。

□ Compact size and high power density;
□ High speed MPPT for real time power tracking and improved energy harvesting;
□ Transformerless operation for highest efficiency:96.5%(95.5% Euro);
□ High overload capability: works up to 1650W under most ambient conditions;
□ Certified grid connected operation according to the international standards;
□ Turrue Sine Wave Output;
□ Integrated RS–485/RS–232 serial communication;
□ Multi–language display.

### OP–PSI–2000TL

□紧凑的结构和高功率密度设计；
□实时最大功率跟踪的高速 MPPT，超强的能量捕获功能；
□无变压器型设计，最高效率 97%( 欧洲效率 96.2%)；
□高过载能力，大多数情况下可以 2200W 输出；
□符合国际上各种并网标准的要求；
□纯正弦波输出；
□ RS–485/RS–232 通讯接口；
□多种语言显示。

□ Compact size and high power density;
□ High speed MPPT for real time power tracking and improved energy harvesting;
□ Transformerless operation for highest efficiency:97%(96.2% Euro);
□ High overload capability: works up to 2200W under most ambient conditions;
□ Certified grid connected operation according to the international standards;
□ Turrue Sine Wave Output;
□ Integrated RS–485/RS–232 serial communication;
□ Multi–language display.

### OP–PSI–3000TL

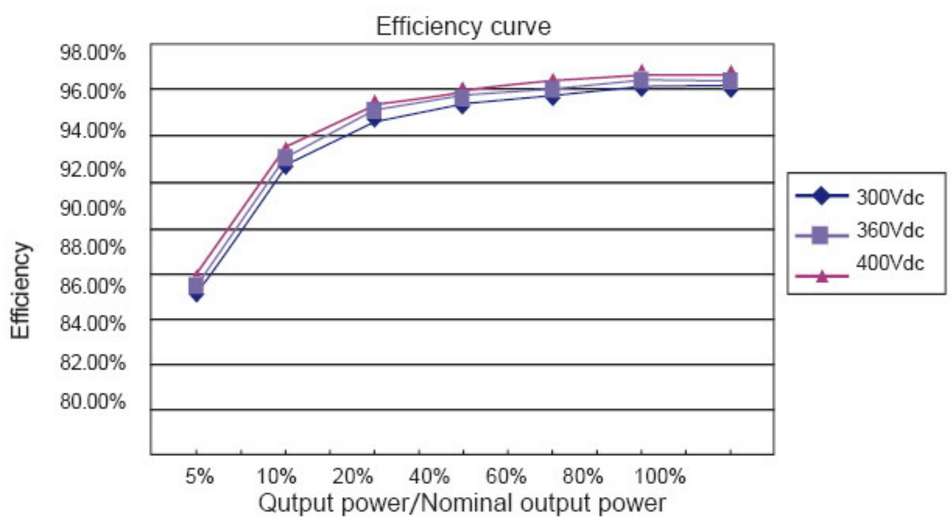
□紧凑的结构和高功率密度设计；
□实时最大功率跟踪的高速 MPPT，超强的能量捕获功能；
□无变压器型设计，最高效率 97.2%( 欧洲效率 96.4%)；
□高过载能力，大多数情况下可以 3400W 输出；
□符合国际上各种并网标准的要求；
□纯正弦波输出；
□ RS–485/RS–232 通讯接口；
□多种语言显示。

□ Compact size and high power density;
□ High speed MPPT for real time power tracking and improved energy harvesting;
□ Transformerless operation for highest efficiency:97.2%(96.4% Euro);
□ High overload capability: works up to 3400W under most ambient conditions;
□ Certified grid connected operation according to the international standards;
□ Turrue Sine Wave Output;
□ Integrated RS–485/RS–232 serial communication;
□ Multi–language display.

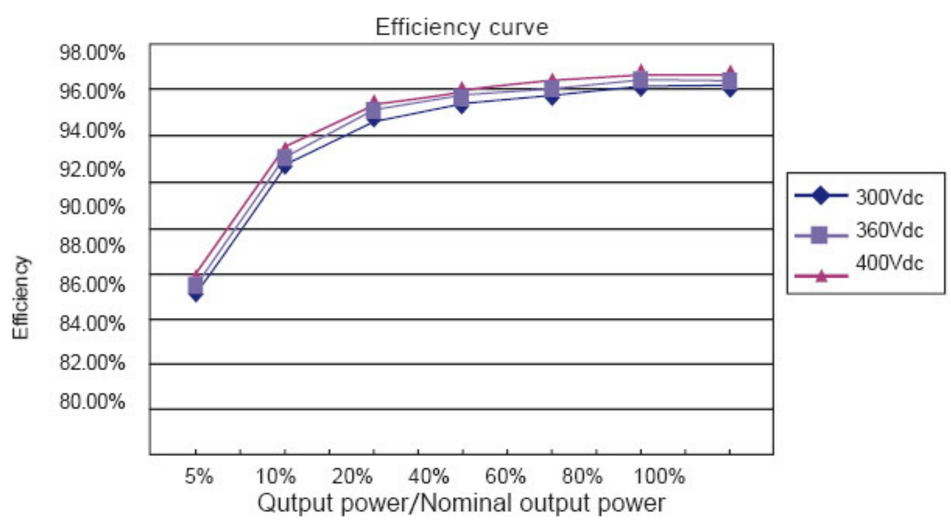
# Outdoor On-grid Solar Inverter

## 典型效率曲线图 Typical efficiency curve

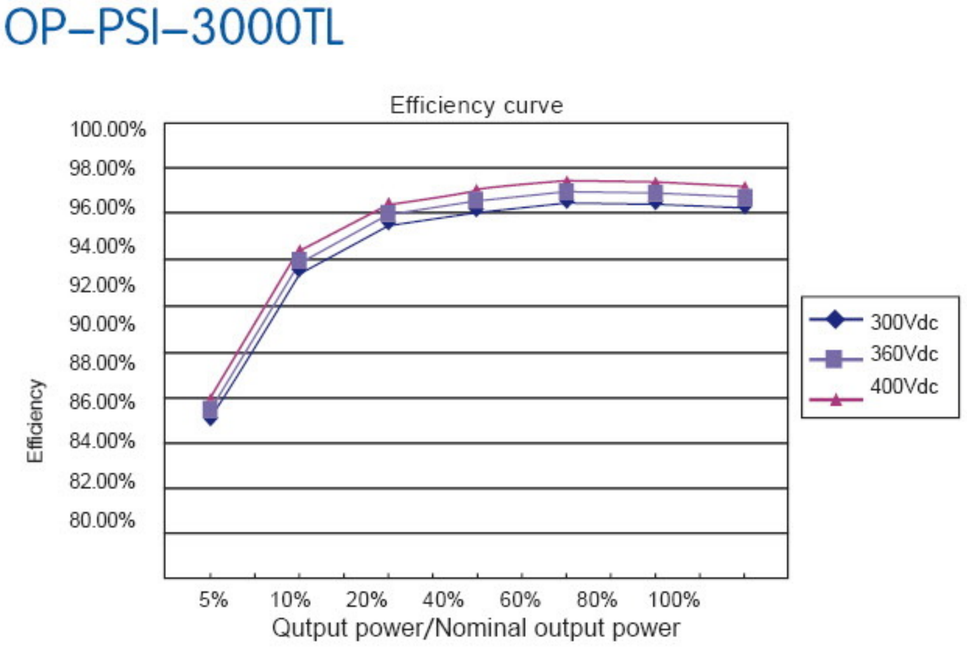
### OP-PSI-1500TL




### OP-PSI-2000TL




### OP-PSI-3000TL



# 户外型太阳能并网逆变器

| 特征 Characteristics | OP-PSI-1500TL | OP-PSI-2000TL | OP-PSI-3000TL |
|---|---|---|---|
| 输入参数 ( 直流侧 )Input Data(DC side) | | | |
| 最大直流输入功率 Max.DC power | 1750W | 2300W | 3660W |
| 最大直流输入电压 Max.DC voltage | 450Vdc | 500Vdc | |
| MPPT 范围 MPPT Operating range | 100~450Vdc | | |
| 输入路数 Number of parallel inputs | 1 | | 2 |
| MPPT 跟踪路数 Number of MPPT trackers | 1 | | |
| 最大输入电流 Max.input current(total) | 9A | 10A | 20A |
| 输出参数 ( 交流侧 )Output Data(AC side) | | | |
| 额定输出功率 Nominal output power | 1500W | 2000W | 3000W |
| 最大输出功率 Max. Output power | 1650W | 2200W | 3400W |
| 额定输出电流 Nominal output current | 6.5A | 8.7A | 13A |
| 最大输出电流 Max. output current | 7.9A | 10.5A | 15.7A |
| 额定电网电压 Nominal AC voltage | 230Vac | | |
| 电网电压范围 *AC voltage range* | 190~265Vac | | |
| 额定电网频率 Nominal AC grid frequency | 50Hz | | |
| 电网频率范围 *AC grid frequency range* | 50 ± 5Hz | | |
| 功率因数 (cos ϕ )Power factor(cos ϕ ) | >0.99 | | |
| 电流谐波 (THDI)Harmonic distortion(THDI) | <3%( 额定输出功率时 )<3%(at nominal output power) | | |
| 效率 Efficiency | | | |
| 最大效率 Max.effciency | 96.5% | 97% | 97.2% |
| 欧洲效率 Euro Efficency | 95.5% | 96.2% | 96.4% |
| MTTP 效率 MPPT Efficency | 99.6% | | |
| 通用参数 Genaral data | | | |
| 尺寸 ( W/D/H ) Dimensions ( W/D/H ) | 345 × 162 × 354 mm | | |
| 净重 Net weight | 12Kg | 15Kg | 17Kg |
| 工作温度 Operating temperature range | -25℃ ~ +60℃ | | |
| 噪音 Noise emission(typical) | ≤ 25 dB(A) | | |
| 夜间耗电 Power consumption at night | 0 W | | |
| 电气隔离 Electrical isolation | 无变压器型 Transformer-less | | |
| 冷却方式 Cooling concept | 自然冷却 Natural cooling | | |
| 防护等级 IP Code | IP65 | | |
| 通讯接口 Communication | RS-232(RS-485 可选 )RS-232(RS-485 is optional) | | |

* 电网电压范围和频率范围取决于当地的超标准。*AC grid voltage range and frequency range depend on local standards.

## 型号总结 Sodel Summary

| 型号 Model | 输出功率 Output power |
|---|---|
| OP-PSI-1500TL | 1500W |
| OP-PSI-1500TL-S | 1500W |
| OP-PSI-2000TL | 2000W |
| OP-PSI-2000TL-S | 2000W |
| OP-PSI-3000TL | 3000W |
| OP-PSI-3000TL-S | 3000W |

* S 结尾表示集成直流开关 *-S suffix indicate an integrated DC switch.

## 符合的国际标准 Accord With International Standard

OP-PSI 逆变器符合各国并网要求、安全和电磁兼容标准，包括 VDE0126-1-1，DK5940，AS4777，IEC 62109-1，IEC62109-2，EN50178，EN61000，G83/1，CE。

OP-PSI INVERTERS MEET THE STANDARD FOR ON-GRID, SAFE AND EMC,INCLUDING VDE0126-1-1, DK5940, AS4777, IEC 62109-1, IEC62109-2, EN50178,EN61000, G83/1, CE.