

More efficient, grid-tie units spur line

Top trends

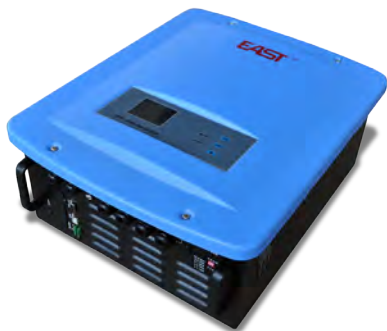
- **MPPT designs breach mainstream:** Suppliers are rolling out more, in particular grid-tie variants, that adopt MPPT. This pushes the conversion efficiency to 97 percent, about 20 to 30 percent higher than PWM-based versions.
- **Improved performance:** Makers are optimizing MPPT algorithms to enhance response speed and tracking accuracy toward greater conversion efficiency. Some products come with a two-way independent tracking system that enables energy to be harvested more effectively through multiple arrays.
- **Transformerless variant:** Supply of this type is increasing as well. Such models raise conversion rates by 3 percent and power density by 40 percent.
- **Intelligent functions:** The ECUs in recent inverters can automatically adjust the parameters to ensure effective operation. They help protect the unit from overload and -voltage, and short-circuit.

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Guangdong East Power Co. Ltd

Model: GF2000

Description: Off-grid; isolated and pure sine wave output; RS-232 interface; USB, SNMP and AC output; LCD screen; online protection function; optional no-load automatic shutdown; wall or tower mount; 380x195x478 or 475x200x337mm; 25.3kg; CE, TÜV, CQC, AS4777



[Ningbo National Hi-Tech Park Sunshine Technology Co. Ltd](#)

★★★★★

Model: Sun-1000G

Description: Grid-tie; plug-and-play; pure sine wave output; 900W normal, 1,000W maximum power; 90 to 130 or 190 to 260VAC at 46/65Hz output; optional 10.8 to 30V or 22 to 60V input voltage; 92% peak inverter efficiency; <5% THD; 0.99DC power factor

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Sunrous New Energy Technology Co. Ltd

★★★★★

Model: GT3.8-ZX-01HF

Description: 3.8kW; -25 to 55 C operating temperature; 96% inverter efficiency; sealed stainless steel housing; plug-in cable; anti-theft, -islanding protection; for indoor and outdoor installation; 10-year warranty

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Wuxi SLD Power Technology Co. Ltd

★★★★★

Model: SLS3KH65

Description: Grid-tie; single phase; transformerless; dual MPPT trackers; 100VDC input voltage; 97.4% maximum inverter, >99.5% MPPT efficiency; passed 24-hour aging test

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Xiamen Kehua Hengsheng Co. Ltd

★★★★★

Model: SPI-A

Description: Grid-tie; single phase; pure sine wave output; 1.5 to 6kW; -20 to 50 C operating temperature; DSP controller; grid tracking technology; overvoltage and anti-islanding protection

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Zhejiang University Sunny Energy Science & Technology Co. Ltd

★★★★☆

Model: ZDNY-TL17000-1-8

Description: Grid-tie; RS-485 or RS-232 interface; 17kW; 400 to 800V MPPT voltage; 220 or 250VDC input voltage; 25A maximum AC current; 98.2% MPPT, 99.5% maximum efficiency; >0.9 power factor; -20 to 60 C operating temperature

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