

## SINGLE PHASE INVERTER 4KW I



**Product Code:** ATE-INV1PH4KW I

**SKU:** LA625002002

**Family:** Smart Energy

**Subcategory:** 1PH Medium Power (3–6 kW) Inverter

## Description

Single Phase Inverter is an on-grid single phase solar inverter designed for commercial and industrial photovoltaic systems.

| Input (DC)                       |                 |
|----------------------------------|-----------------|
| Max. input voltage               | 600V            |
| Rated input voltage              | 380V            |
| Start-up voltage                 | 90V             |
| MPPT operating voltage range     | 80V~550V        |
| Number of MPPTs                  | 2               |
| Number of DC inputs              | 1 for each MPPT |
| Max. input MPPT current          | 15A/15A         |
| Max. input short circuit current | 22.5A/22.5A     |

| Output (AC)            |               |
|------------------------|---------------|
| Rated output power     | 4000W         |
| Rated apparent power   | 4000VA        |
| Max. apparent power    | 4400VA        |
| Rated output current   | 17.4A         |
| Max. output current    | 20A           |
| Rated output voltage   | L/N/PE,230Vac |
| Output voltage range   | 180Vac-276Vac |
| Rated output frequency | 50 / 60Hz     |

| Output (AC)                          |                       |
|--------------------------------------|-----------------------|
| <b>Output frequency range</b>        | 45Hz-55Hz/55Hz-65Hz   |
| <b>Active power adjustable range</b> | 0~100                 |
| <b>THDi</b>                          | <3%                   |
| <b>Power factor</b>                  | 1 (adjustable+/-0.8 ) |

| Efficiency                 |       |
|----------------------------|-------|
| <b>Max. efficiency</b>     | 0.982 |
| <b>European efficiency</b> | 0.973 |

| Protection                              |                            |
|-----------------------------------------|----------------------------|
| <b>DC reverse polarity protection</b>   | Yes                        |
| <b>Anti-islanding protection</b>        | Yes                        |
| <b>Leakage current protection</b>       | Yes                        |
| <b>Ground fault monitoring</b>          | Yes                        |
| <b>PV-array string fault monitoring</b> | Yes                        |
| <b>DC switch</b>                        | Optional                   |
| <b>SPD</b>                              | PV: type III, AC: type III |

| General Data                     |                 |
|----------------------------------|-----------------|
| <b>Ambient temperature range</b> | -30°C~+60°C     |
| <b>Self-consumption at night</b> | <1W             |
| <b>Topology</b>                  | Transformerless |

| General Data                      |                                                                                                                                                                                                                                                                                           |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection              | IP65                                                                                                                                                                                                                                                                                      |
| Allowable relative humidity range | 0~100%                                                                                                                                                                                                                                                                                    |
| Max. operating altitude           | 4000m                                                                                                                                                                                                                                                                                     |
| Cooling                           | Natural                                                                                                                                                                                                                                                                                   |
| Dimension(W×H×D)                  | 349×344×164mm                                                                                                                                                                                                                                                                             |
| Weight                            | 9.2kg                                                                                                                                                                                                                                                                                     |
| Display                           | <p>كفاءة قصوى تصل إلى 98.4%; تصميم مختصر وخفيف; LCD &amp; Bluetooth +APP;<br/> لغاية 150%; تبريد طبيعي DC اثنين، بإمكانية تحميل قدرة ثابتة MPPT الوزن; متتبعي<br/> بدون مراوح، وإزعاج منخفض; خاصية تحديد القدرة التي تغذى بها الشبكة<br/> RS485/Bluetooth، واختيارياً، WIFI, Ethernet</p> |