LISHUI E-ABLE POWER EQUIPMENT CO., LTD
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DATASHEET · EAP-DS-20261107-TP10K-R01

10 kW Three-Phase

Hybrid inverter · 230/400 V 3W+N+PE · 48 V battery · IP66

A three-phase hybrid inverter for commercial and light industrial sites on a 230/400 V network. It pairs a 48 V lithium or lead-acid bank with 20 kW of PV input across two MPPT trackers, delivers 10 kW grid-tied and off-grid, and keeps a 200 % overload for 15 seconds. The IP66 cabinet is 683 × 475 × 256 mm and weighs 38 kg.

COMMERCIAL ROOFTOPS | BACKUP POWER | LIGHT INDUSTRY | MICROGRID | EV CHARGING SUPPORT | DIESEL DISPLACEMENT



10 kW	230/400 V	20 kW	IP66
RATED OUTPUT	THREE-PHASE	MAX PV INPUT	ENCLOSURE

KEY FEATURES

01
10 kW on 230/400 V
Grid-tied and off-grid output at 10,000 W, 16.7 A per phase, power factor 1 (0.8 leading to 0.8 lagging).

02
200 % overload for 15 s
Off-grid peak above 200 % of rated power for 15 seconds, enough for pump and compressor starts.

03
20 kW PV, two MPPT
1,000 V maximum DC input, 200–800 V MPPT window, 150 V start-up and 36 A / 18 A maximum input current.

04
48 V battery, 210 A
Lithium or lead-acid bank with 210 A charge and discharge, charge voltage up to 60 V configurable.

05
IP66 outdoor cabinet
Intelligent forced-air cooling, < 55 dB, −25 to +60 °C with derating above 45 °C.

06
Efficiency
98 % maximum PV efficiency, 94.5 % battery efficiency and 97.5 % European efficiency.

SCOPE OF SUPPLY

- 10 kW three-phase hybrid inverter
- Dual MPPT PV charger
- 48 V lithium / lead-acid interface
- Integrated AC and DC protection
- Wall-mount bracket and manual

APPLICATION NOTE

Balance the three phases and keep the PV string voltage inside the 200–800 V MPPT window at the site's lowest temperature. For backup loads, size the battery against the night load and the 210 A discharge limit.

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TECHNICAL SPECIFICATIONS

AC OUTPUT

Rated output power, grid-tied	**10,000 W**
Rated output power, off-grid	**10,000 W**
Peak output power, off-grid	**> 200 % for 15 s**
Rated output voltage	**230/400 V, 3W + N + PE**
Rated output frequency	**50/60 Hz**
Rated output current	**16.7 A**
Output power factor	**1 (0.8 leading to 0.8 lagging)**

PV INPUT

Maximum DC input power	**20 kW**
Maximum DC input voltage	**1,000 V**
MPPT voltage range	**200–800 V**
Start-up voltage	**150 V**
Maximum input current	**36 A / 18 A**
Number of MPPT trackers	**2**

BATTERY

Battery type	**Lithium or lead-acid**
Rated battery voltage	**48 V**
Maximum charging voltage	**≤ 60 V (configurable)**
Max charging / discharging current	**210 A**

GENERAL AND COMPLIANCE

Max efficiency, PV	**98 %**
Max efficiency, battery	**94.5 %**
European efficiency	**97.5 %**
Operating temperature	**−25 to +60 °C (derating above 45 °C)**
Storage temperature	**−30 to +65 °C**
Humidity / altitude	**0–95 % / ≤ 4,000 m (derating above 2,000 m)**
Cooling / noise	**Intelligent forced air / < 55 dB**
Dimensions (W × H × D)	**683 × 475 × 256 mm**
Weight	**38 kg**
Ingress protection	**IP66**
Warranty	**2 years**
Certification	**CE, IEC 62109, EN 50549**
Other standards	**IEC 61000, IS 16169/16221, IEC 61683/62116, EN 50530, IEC 60068**
Packing	**Single export carton**

NOTES

- Protection covers PV reverse polarity, PV insulation resistance, residual current, output overcurrent, output short circuit and output overvoltage.
- CE and EN 50549 follow the agreed EU certification set; the supplied sheet lists IEC 62109, IEC 61000 and the IS/IEC standards above.
- Packing is described by method only; carton dimensions and gross weight are supplied with the shipping documents.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement. Draft R01 for internal review.