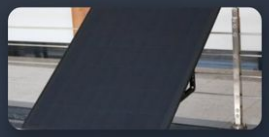
KILOVANT

BALCONY PV SYSTEM KITS

Plug-and-Play | 500W / 800W / 1600W / 2500W

Plug-and-play solar kits for balconies, gardens, caravans, small rooftops and other compact spaces. No professional tools or complex wiring: one person installs a kit in about 2 hours and plugs it into a household socket. Pure-black modules, a micro inverter and app monitoring come in one box, with optional battery storage.




BALCONY


CARAVAN / RV


CAMPING


YACHT

Plug & Play | 2-Hour Install | App Monitoring | Pure Black Design | 2–6 Year Payback | Long Warranty

DATASHEET

Kit	500W	800W	1600W	2500W
System				
Rated AC Output	500W	800W	1600W	2500W
PV Modules	2 pcs	4 pcs	8 pcs	12 pcs
Module Model	LPM250ME(BK) · 250Wp, pure black			
PV Array Power	500Wp	1000Wp	2000Wp	3000Wp
Micro Inverter	ESL500M	ESL800Mi	ESL1600M	ESL2500M
Number of MPPTs	1	2	4	6
CEC Efficiency	>96.5%	>95.5%	>95.5%	>96.7%
Output Voltage	220/230/240V	230V	230V	220/230/240V
Kit Contents				
Mounting Bracket	2 sets	4 sets	8 sets	12 sets
MC4 Extension 5m	2 sets	4 sets	8 sets	12 sets
AC Grid Cable 5m	1mm²	1mm²	1.5mm²	1.5mm²
Plug Type	EU / UK / AU (customizable)			
Manual · Accessories	1 operation manual · 2 accessory kits + tools			
Packaging	1 box	1 box	2 boxes	2 boxes
Optional Storage				
Solar Hub EMS	ESH1600 · 1600W, 2 MPPT, app control			
Power Box Battery	ESL1024 · 1024Wh LiFePO4, up to 6 units / 6144Wh			
Warranty & Compliance				
Warranty	Modules 10 yrs · Micro inverter 10 yrs · Hub 10 yrs · Battery 5 yrs			
Certifications	CE · UKCA · FCC · RoHS			

** All specifications are subject to change without notice.*
** Values measured under standard test conditions.*

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BALCONY KIT CONTENTS & INSTALLATION

What's in the box | 6-step setup



PV Module
LPM250ME(BK) 250Wp



Mounting Bracket
Stainless steel + aluminium



Micro Inverter
ESL500M / 800Mi / 1600M / 2500M



MC4 Extension Cable
5m, 2.5mm²



AC Grid Cable
5m, EU / UK / AU plug



Operation Manual
× 1



Accessory Kits
× 2 + tools

OPTIONAL



Solar Hub EMS
ESH1600

OPTIONAL



Power Box Battery
ESL1024

INSTALLATION

1. Attach the connectors.
2. Install the brackets and panels.
3. Fix the bracket to the railing.
4. Connect the panels.
5. Connect the micro inverter to the panels.
6. Connect and power up.

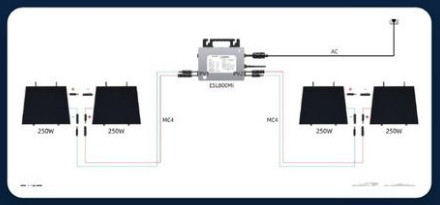
Follow the video tutorial and install the kit yourself in about 2 hours, without electrical knowledge: about as easy as assembling a large piece of furniture.

WIRING DIAGRAMS

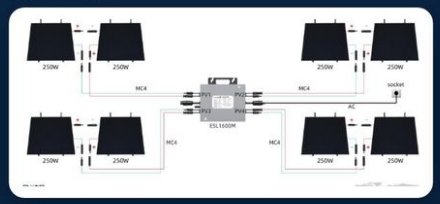
500W KIT



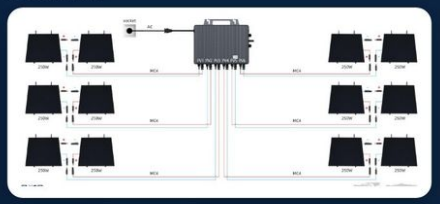
800W KIT



1600W KIT



2500W KIT



KEY BENEFITS

- **Easy to Transport**
  Light, integrated packaging cuts weight and freight cost.
- **Easy Installation**
  No wiring, plug-and-play: one person, about 2 hours.
- **Intelligent Application**
  App monitoring shows output and savings clearly.
- **Excellent Performance**
  High-end components, high power density at low voltage.
- **Attractive Appearance**
  Pure black and elegant; the compact body saves space.
- **Return on Investment**
  Payback in 2–6 years, depending on sun and feed-in tariff.
- **Multi-Scenario Use**
  Balconies, homes, fences, yachts and caravans.
- **High Reliability**
  10 years on modules, inverter and hub; 5 on batteries.