KILOVANT

BALCONY MICRO INVERTER SERIES

ESL Series | 500W / 800W / 1600W / 2500W

Wide compatibility, excellent low-light performance and flexible system design for homes and small commercial sites. Built-in Wi-Fi gives real-time monitoring, fault detection and power adjustment from 5% to 100%, and the IP67 enclosure runs reliably in harsh weather.



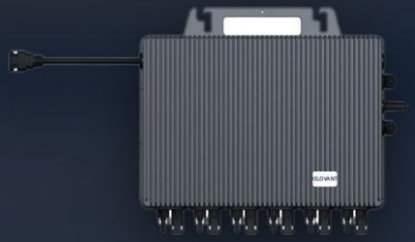
ESL500M



ESL800Mi



ESL1600M



ESL2500M

Plug & Play

Max 60V DC

IP67 Rated

Wi-Fi Monitoring

Up to 97% Peak

10-Year Warranty

DATASHEET

Model	ESL500M	ESL800Mi	ESL1600M	ESL2500M
Input (DC)				
Recommended PV Power	300–600W	280–550W ×2	280–550W ×4	400–700W ×6
Start-up Voltage	22V	20V	28V	22V
MPPT Voltage Range	16–60V	25–55V	28–55V	16–60V
Max. Input Voltage	60V			
Max. Input Current	14A	13.5A ×2	13A ×4	18A ×6
Max. DC Short Circuit	20A	16.5A ×2	19A ×4	25A ×6
Number of MPPTs	1	2	4	6
Output (AC)				
Rated Output Power	500W	800W	1600W	2500W
Nominal Output Voltage	220/230/240V L/N/PE	230V	230V	220/230/240V L/N/PE
Extended Voltage Range	184–253V			
Nominal Output Current	2.5A	3.47A	7A	12.5A
Frequency	50Hz / 60Hz			
Power Factor	>0.99 (default)			
THD	<3%			
Efficiency				
Peak Efficiency	96.70%	96.00%	96.00%	97.00%
CEC Efficiency	96.50%	95.50%	95.50%	96.70%
Static MPPT Efficiency	99.90%	99.50%	99.50%	99.90%
Night Power Consumption	<50mW			
General				
Ambient Temperature	-40°C ~ +65°C			
Dimensions (W×H×D) mm	164×225×30	260×225×32	312×301×43	380×313×49
Weight	1.75kg	2.9kg	7kg	7.5kg
Enclosure · Cooling	IP67 · Natural convection, no fans			
Isolation	High-frequency isolation			
Communication	Wi-Fi (Bluetooth), 2× RS485 opt.	Wi-Fi	Wi-Fi	Wi-Fi (Bluetooth), 2× RS485 opt.
Monitoring	TSUN SMART	Solarman	Solarman	TSUN SMART
Warranty	10 years standard · 25-year design life			

Certifications: EN/IEC 62109-1/-2, ETSI EN 301 489-1/-17, EN IEC 61000-6, IEC 62920, ETSI EN 300 328, EN IEC 62311 (ESL500M, ESL2500M; ESL2500M also EN 50549-10); IEC 62109-1/-2, IEC 61000-6, VDE 4105, VRF2019, NEN-EN 50549-1, PN-EN 50549-1 (ESL800Mi, ESL1600M).

Specifications are subject to change without notice.