

— ENERGIAA-M series

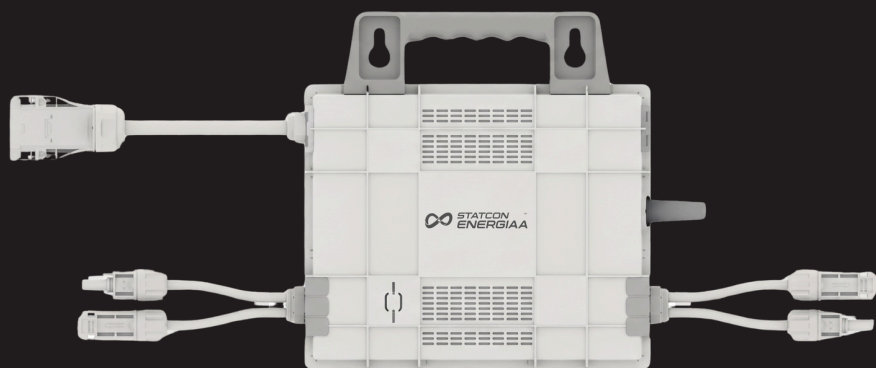
Micro inverters

Module-level solar, two MPPTs in one unit

Statcon Energiaa micro inverters turn module-level solar DC into grid-ready single-phase AC. Two independent MPPTs in one outdoor-rated unit draw the most from each panel pair, for balcony and rooftop PV.

Single phase 230 V AC | Two independent MPPTs | IP67 outdoor

Models from 300 W to 1100 W



ENERGIAA-M series micro inverter

— Key features

Two MPPTs, built for balcony and rooftop PV

- ✓ Output power up to 1100 VA across the series
- ✓ Two independent MPPTs for module-level tracking
- ✓ Maximum PV input current up to 20 A
- ✓ Built-in WiFi and Bluetooth for live monitoring
- ✓ Rapid shutdown for added safety
- ✓ Quick-plug installation for balcony PV systems
- ✓ Fanless, natural-convection cooling
- ✓ IP67 rated for outdoor installation

1100_w

Maximum AC output

2

Independent MPPTs

≥96 %

CEC efficiency

10_{yr}

Standard warranty **

** Warranty T&Cs of SEPL apply

Micro inverter

Technical specifications

ENERGIAA-M series · 300 W to 1100 W

Input data (DC)	ENERGIAA-M 300W-1P	ENERGIAA-M 400W-1P	ENERGIAA-M 500W-1P	ENERGIAA-M 600W-1P	ENERGIAA-M 800W-1P	ENERGIAA-M 1000W-1P	ENERGIAA-M 1100W-1P
Recommended max. DC input power	450W	550W	650W	450W × 2	550W × 2	650W × 2	750W × 2
Max. DC input voltage	65V DC						
Start-up voltage	22V DC						
Nominal voltage	38V DC						
MPPT voltage range	16-60V DC						
No. of MPP trackers	1	1	1	2	2	2	2
No. of PV strings per MPP tracker	1	1	1	2	2	2	2
Max. input current per MPP tracker	12A	16A	16A	12A+12A	20A+20A	20A+20A	20A+20A
Max. short-circuit current per MPP tracker	25A	25A	25A	25A+25A	25A+25A	25A+25A	25A+25A
Output data (AC)							
AC nominal power	300W	400W	500W	600W	800W	1000W	1100W
Max. AC apparent power	300VA	400VA	500VA	600VA	800VA	1000VA	1100VA
Nominal AC voltage / range	230V AC / 184-253V AC						
Nominal AC frequency / range	50Hz / 47.5-50.5Hz						
Max. output current	1.3A	1.75A	2.18A	2.62A	3.48A	4.35A	4.8A
Power factor	Unity						
THDi	< 3% *						
AC connection type	Single phase						
Efficiency							
MPPT efficiency	> 99.8%						
Conversion efficiency	> 96.5%						
CEC efficiency	> 96%						
General information							
Operating temperature range	-40 °C to +65 °C						
Protection degree	Outdoor, IP67						
Pollution degree	PD3						
Relative humidity	0-100% RH						
Overvoltage category	PV side (II), grid side (III)						
Type of topology	Isolated HF transformer						
Cooling	Natural convection, no fan						
DC connection	MC4						
AC connection	Connector						
Interface / data communication	2.4G built-in WiFi, Bluetooth / Sub-1G; RS 485 / 4G						
Monitoring	APP & LED						
High altitude	< 3000 m						
Warranty	120 months / 10 year **						

* THDi measured at rated load. ** Warranty as per standard policy; extensions on request.