harmon·e

Technical datasheet
Annex to the ODM agreement
Revision 1.0 · September 2026

HARMON-E MAESTRO HOME

Maestro Home Series 1

Single-phase all-in-one hybrid inverter with battery storage

Type designation	Brand	Importer / EU manufacturer
Maestro Home Type 1	**Harmon-e**	**Harmon-e B.V. · Kringloopweg 40, 3334 LR Hendrik-Ido-Ambacht, NL**

SYSTEM

Grid type	1-phase · 1/N/PE · 230 V_{ac}
Rated power	6.000 W
Battery capacity per module	5,22 kWh
Max. number of modules	6
Scalable range	10,44 – 31,33 kWh

PV INPUT

Max. input power	8.000 W
Rated input voltage	360 V_{dc}
Max. input voltage	550 V_{dc}
MPPT voltage range	100 – 540 V_{dc}
MPPT range at full load	250 – 450 V_{dc}
Max. input current	15 / 15 A_{dc}
PV short-circuit current	20 / 20 A_{dc}

BATTERY INPUT / OUTPUT

Battery type	Li-ion (LFP)
Rated voltage	51,2 V_{dc}
Battery voltage range	40,8 – 57,6 V_{dc}
Max. charging power	5.000 W
Max. charging current	100 A_{dc}
Max. discharging power	6.000 W
Max. discharge current	120 A_{dc}



GRID

Rated voltage	230 V_{ac} · L/N/PE
Rated frequency	50 / 60 Hz
Rated input / output power	6.000 W
Max. apparent power	6.000 VA
Max. current	26,09 A_{ac}
Power factor range	0,8 leading – 0,8 lagging

BACKUP OUTPUT

Rated output voltage	230 V_{ac} · L/N/PE
Rated output frequency	50 / 60 Hz
Rated output power	6.000 W · 6.000 VA
Max. output current	26,09 A_{ac}
Switching time	≤ 10 ms

GENERAL

Protection class	Class I
Ingress protection	IP66
Ambient temperature	-25 to +60 °C (derating above 45 °C)
Altitude	≤ 4.000 m

BATTERY MODULE

Type	EHBS-P5-SL
Cell chemistry	LiFePO4
Battery designation	LFP51/161/120[16S1P]M/-20+60/90
Rated capacity · energy	102 Ah · 5.222 Wh
Max. output power	5,0 kW
Working voltage	41,6 – 58,4 V_{dc}
Charge / discharge current	50 A / 100 A
Dimensions (W×H×D)	600 × 230 × 380 mm
Weight	50,5 ± 1,5 kg
Ingress protection	IP66
Operating temperature	discharge -20 to +55 °C · charge 0 to +55 °C

STANDARDS AND CERTIFICATION MARKS

Safety (LVD)	IEC/EN 62109-1 · IEC/EN 62109-2 · AS 62109
EMC	EN 61000-6-1 · -6-2 · -6-3 · -6-4
Grid connection	EN 50549-1 · VDE-AR-N 4105:2018 · DIN VDE V 0124-100 · CEI 0-21 · C10/11 · G99 · NRS 097-2-1 · XP C 15-712-3 · ELOT EN 50549-1
Cyber security	ETSI EN 303 645 + PSTI
Battery module	IEC 62619 · IEC 60730 · IEC 62040-1 · UN 38.3 · RoHS 2.0 · VDE 2510-50
Marking	CE
Local grid settings	Germany, Italy, Belgium, Greece, Australia and South Africa (4.600 – 6.000 W at 230 V_{ac}, 50 Hz)