

Power Home mInverter

8000W

2X MPPT Input

5000W

AC Output

97.5%

Efficiency

The Power Home mInverter reduces your reliance on grid. With the Mango Power mInverter coupled with the Mango Power mBattery, users reduce their carbon footprint even further, save even more on energy bills and better prepare their homes for power outages.



Power Home mInverter

4.6K/5K Hybrid

Solar Input

Max.DC Input power	8000W
Nominal DC Input Voltage	360V.d.c
DC Input Voltage Range	100-550V.d.c
MPPT Voltage Range	120-500V.d.c
Start-up Voltage	140V.d.c
MPPT Number	2
Max.DC Input Current	12.5A/12.5A
Max.Short-circuit Current	13.7A/13.7A
Max.Input power per MPPT	4000W/4000W
Max.Feedback Current to Array	0/0A

Battery Output

Comdatible Battery Type	Lithium-ion/lead-Acid
Nominal Battery Voltage	48V.d.c
Battery Voltage Range	40-60V.d.c
Max.Charge/Discharge Current	80A/80A
Max.Charge/Discharge power	3600W/3600W
Charging Curve	3 stages
Max.Charge Voltage	59V
DOD(Lithium-ion/lead-Acid)	80%/50%
Capacity of battery	2-20kWh

AC Output

Nominal AC Output power	4600W/5000W
Max.AC Output Power	4600VA/5000VA
Max.AC Output Current	25A
Nominal AC Volitage	230V.a.c
AC Voltage Range	180-270V.a.c
Nominal AC Frequency	50Hz/60Hz
AC Frequency range	45-55Hz/55-65Hz
Power Factor	Adjustable 0.8 overexcited to 0.8 underexcited
THDI	<3%
Inrush Current	10A/10us
Max.Output Fault Current	50A/20us
Max.Output Over Current protect	25A

UPS Output-with battery

UPS Max.Output Power without Solar	3600W
UPS Max.Output Power with Solar	5000W
UPS Nominal Output Voltage	230V.a.c
UPS Nominal Output Frequency	50Hz/60Hz
UPS Nominal Output Current	13A
Peak power	4500W,30S
THDV	<5%
Switching Time	<0.01S

Efficiency

Europe Efficiency	97.5%
Max. Efficiency	97.9%
Max. Charge/ Discharge Efficiency	94.5%

Protection

Reverse Polarity Protection	Yes
Over Current/Voltage Protection	Yes
Anti-islanding Protection	Yes
AC Short-circuit Protection	Yes
Leakage Current Protection	Yes
Ground Fault Monitoring	Yes
Grid Monitoring	Yes
Ingress Protect Degree	IP65/NEMA4X
DC Switch	Yes

General Data

Dimensions (W/H/D)	451 / 469(551) / 184
Weight	20 kg
Topology	Transformerless(solar), HF(Battery)
Cooling Concept	Natural Convection
Relatively Humidity	0-100%
Operating Temperature Range	-25 - 60 °C
Altitude	<2000m
Noise Emission	<25dB
Standby Consumption	<5W
Display & Communication Interface	LCD/ LED/RS485/ Wi-Fi/ CAN

Certification & Approvals

AS 4777,
VDE-AR-N4105,
VDE0126,
G83,G59,
NRS 097-2-1
IEC62109-1-2,
IEC62040.
EN61000-6-1.
EN61000-6-2.
EN61000-6-3