

PrimePower Hybrid Inverter

MID-H5/6/8/10/12K-T

98.2%

High Efficiency

15A

High PV Input
Current

135V

Low starting voltage

10ms

Backup switching

✓ Performance Features

- Low start voltage for longer energy generation and higher efficiency.
- 150% PV over-dimensioning for optimal inverter utilization.
- Remote maintenance and software updates with five flexible operating modes.

✓ Maximum Safety

- Weather-resistant – IP65 protection, suitable for indoor and outdoor installation.
- Automatic backup power with 10 ms response time for seamless operation during outages.
- All data is stored exclusively in the European Union.
- 10 years garantie
- TÜV Certification

✓ Thoughtful Design

- Noise level of only 25 dB for quiet and comfortable operation.
- OLED screen design for quick viewing of operating status.
- 26 kg for easy transport and installation.



Model		MID-H5K-T	MID-H6K-T	MID-H8K-T	MID-H10K-T	MID-H12K-T
PV Input						
Recommended Max. input power	[kWp]	7.5	9.0	12.0	15.0	18.0
Start-up voltage	[V]	135	135	135	135	135
Max. DC input voltage*	[V]	1000*	1000*	1000*	1000*	1000*
Rated DC input voltage	[V]	620	620	620	620	620
MPPT voltage range*	[V]	120-950*	120-950*	200-950*	200-950*	200-950*
No. of MPP trackers		2	2	2	2	2
No. of DC inputs per MPPT		1/1	1/1	1/1	1/1	1/1
Max. input current	[A]	15/15	15/15	15/15	15/15	15/15
Max. short-circuit current	[A]	20/20	20/20	20/20	20/20	20/20
Battery Side						
Battery type		LFP battery with BMS and PCU (DC-DC converter)				
Battery voltage range	[V]	135-750				
Maximum charging/discharge current	[A]	25/25				
Grid Side						
Rated output power	[kW]	5.0	6.0	8.0	10.0	12.0
Max. output apparent power	[kVA]	5.5	6.6	8.8	11.0 1)	13.2
Max. input apparent power**	[kVA]	10.0	12.0	16.0	16.5	16.5
Max. charging power of battery	[kW]	5.0	6.0	8.0	8.0	12.0
Rated AC voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated AC frequency	[Hz]	50/60	50/60	50/60	50/60	50/60
Max. output current	[A]	8.3	10.0	13.3	16.5 2)	20.0
Power factor		0.8 leading ...0.8 lagging				
Max. total harmonic distortion		<3% @Rated output power				
DCI		<0.5%In	<0.5%In	<0.5%In	<0.5%In	<0.5%In
Back-up Side						
Rated output power	[kW]	5.0	6.0	8.0	10.0	12.0
Max. output apparent power	[kVA]	5.5	6.6	8.8	11.0	13.2
Max. output current	[A]	8.3	10.0	13.3	16.5	20.0
UPS switching time		<10ms	<10ms	<10ms	<10ms	<10ms
Rated output voltage		3L/N/PE; 220/380V;230/400V;240/415V				
Rated output frequency	[Hz]	50/60	50/60	50/60	50/60	50/60
Voltage harmonic distortion		<3% @Linear load				
Efficiency						
Max. efficiency		98.1%	98.1%	98.2%	98.2%	98.2%
European efficiency		97.3%	97.3%	97.4%	97.4%	97.4%
Protection						
DC reverse polarity protection		Integrated				
Battery input reverse connection protection		Integrated				
Insulation resistance protection		Integrated				
Surge protection		Integrated				
Over-temperature protection		Integrated				
Residual current protection		Integrated				
Islanding protection		Integrated				
AC over-voltage protection		Integrated				
Overload protection		Integrated				
AC short-circuit protection		Integrated				
Over voltage category		PV: II Main: III				
General Data						
Dimensions	[W×H×D mm]	534×418×210				
Weight	[KG]	26.0				
Protection degree		IP65				
Standby self-consumption	[W]	<15				
Topology		Transformerless				
Operating Temperature Range	[°C]	-30~+60				
Relative Humidity	[%]	0~100				
Operating Altitude	[m]	3000 (>3000m derating)				
Cooling		Natural convection or passive cooling				
Noise Level	[dB]	<25				
Display		OLED & LED				
Communication		CAN, RS485, WiFi/LAN (Optional)				
Certificates(more available upon request)						
IEC 61000 (CE EMC), IEC 62109 (CE LVD), EN IEC 62477-1 (CE LVD), EN 50549-1,VDE AR-N4105, VDE AR-N4110 , C10/11, TOR Erzeuger, IEC 62116						

* For 1000 PV System, max. Input voltage is 950V without battery, 850V with battery, otherwise inverter will be on standby;

** The maximum power drawn from the utility grid to meet the backup load requirements and charge the battery.