MidTeQ PrimePower Hybrid Inverter

3-phase hybrid inverter · MID-H5/6/8/10/12K-T

The MidTeQ PrimePower Hybrid Inverter combines PV, battery and grid in one 3-phase device. Up to 98.2% efficiency, automatic backup power within 10 ms, IP65 for indoor and outdoor installation — and full integration into the MidTeQ ecosystem via PULSE.

98.2%
High efficiency

15 A
High PV input current

135 V
Low start-up voltage

10 ms
Backup switchover time

Maximum safety

- **150% PV oversizing** for optimal utilisation of the inverter.
- **Weatherproof — IP65 protection,** suitable for indoor and outdoor installation.
- Integrated protection functions for PV, battery, grid and backup side.
- **TÜV certified,** 10-year warranty.

Thoughtful design

- **Low start-up voltage** for longer energy generation and higher efficiency.
- **Automatic backup supply** with 10 ms response time — continuous operation during outages.
- Remote maintenance and software updates with five flexible operating modes.
- Only 25 dB noise level for quiet, comfortable operation.
- OLED display for a quick view of operating status.
- 26 kg — easy to transport and install.
- **All data stored exclusively in the European Union.**

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Technical specifications

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				
Max. charging / discharging current [A]	25/25				

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Technical specifications

Model	MID-H5K-T	MID-H6K-T	MID-H8K-T	MID-H10K-T	MID-H12K-T
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; 220/380 V; 230/400 V; 240/415 V				
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				
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	< 10 ms				
Rated output voltage	3L/N/PE; 220/380 V; 230/400 V; 240/415 V				
Rated output frequency [Hz]	50/60	50/60	50/60	50/60	50/60
Voltage harmonic distortion	< 3% @ linear load				

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Technical specifications (cont.)

Model	MID-H5K-T	MID-H6K-T	MID-H8K-T	MID-H10K-T	MID-H12K-T
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					
Protection functions	Integrated: DC reverse polarity · battery input reverse connection · insulation resistance · surge · over-temperature · residual current · islanding · AC over-voltage · overload · AC short-circuit				
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 (derating above 3000 m)				
Cooling	Natural convection or passive cooling				
Noise level [dB]	< 25				
Display	OLED & LED				
Communication	CAN, RS485, WiFi/LAN (optional)				
CERTIFICATION					
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 a 1000 V PV system the max. input voltage is 950 V without battery and 850 V with battery; otherwise the inverter stays in standby.

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

[1] [2] Values apply to the MID-H10K-T model.

Specifications are subject to change without notice.

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