Datasheet	WIT 125K-XHU(D)	WIT 150K-XHU(D)	WIT 166K-XHU(D)	WIT 125K-XHU(WD)	WIT 150K-XHU(WD)	WIT 166K-XHU(WD)
Input Data (PV)						
Max. recommended PV power (for module STC)	250kW	300kW	332kW	250kW	300kW	332kW
Start voltage	195V					
Max. input voltage of PV	1100V					
Max. open circuit voltage of PV	1000V					
MPPT nominal voltage/range	180V~1000V					
Max. input current per MPP tracker	63A					
Max. short-circuit current per MPP tracker	75A					
No. of PV strings per MPP tracker	3					
No. of MPP trackers	8					
Output Data (AC)						
AC nominal power	125kW	150kW	166.6kW	125kW	150kW	166.6kW
Max. AC apparent power	137.5kVA	165kVA	183.26kVA	137.5kVA	165kVA	183.26kVA
Nominal AC voltage/range	400V,-15%~+10%					
AC grid frequency/range	50/60Hz, 45-55Hz/55-65Hz					
Max. output current	199.3A	239.2A	265.6A	199.3A	239.2A	265.6A
Adjustable power factor	-1...+1					
THDi	<3% (@100% load)					
AC grid connection type	3P3W+PE/3P4W+PE					
Input Data (AC/GEN)						
Nominal AC voltage/range	400V,-15%~+10%					
Nominal AC grid frequency/range	50/60Hz,45-55Hz/55-65Hz					
Rated input power	137.5kW	150kW	166.6kW	137.5kW	150kW	166.6kW
Max. input current	320A					
Battery Data (DC)						
Battery type	Lithium-ion					
Battery voltage range	180-1000V(Derating above 900 V)					
No.of battery input	2					
Max Battery current	150A*2					
BMS communication	CAN					
Backup Power (AC) *						
Rated AC output power	125kW	150kW	166.6kW	125kW	150kW	166.6kW
Max. AC apparent power	137.5kVA	165kVA	183.26kVA	137.5kVA	165kVA	183.26kVA
Nominal AC voltage	230V(L-N),400V(L-L)					
Nominal AC output frequency	50/60Hz					
Load connection	3P3W+PE/3P4W+PE					
Max. output current	199.3A	293.2A	265.6A	199.3A	239.2A	265.6A
THDv	<2% (Linear load)					
Load unbalance	100% three-phase unbalanced					
Overload capacity	1.5 times of rated power, 10s					
On/Off grid transfer time	≤10ms					
Efficiency						
Max. efficiency	98.5%					
Protection Devices						
PV reverse polarity protection	Yes					
Battery reverse protection	Yes					
AC/DC surge protection	Type II					
Insulation resistance monitoring	Yes					
Ground fault monitoring	Yes					
Grid monitoring	Yes					
Residual-current monitoring unit	Yes					
AC short-circuit protection	Yes					
Strings monitoring	Yes					
Anti-islanding protection	Yes					
PID protection	Yes					
AFCI function	Opt					
General						
Dimensions (W/H/D)	720/1400/400mm			1300/720/400mm		
Weight	160kg					
Operating temperature range	-30 °C~60 °C					
Relative humidity	0~100%					
Altitude	4000m					
Topology	Transformerless					
Installation Method	Floor-Mounted			Wall-Mounted		
Cooling	Smart air cooling					
IP degree	IP66					
Display	OLED+LED/WiFi+APP					
Interfaces: LAN/RS485/USB	Yes					
Interfaces: WIFI/LAN	Opt					
Warranty (5/10 years)	Yes/Opt					
IEC/EN 62109-1/2, IEC/EN 61000, EN 50549-1/10, EN 50549-2, CB, IEC 61683/60068, IEC 62116/61727						

*Please refer to the user manual for details on the types of connectable loads and overload capacity.

SHENZHEN GROWATT NEW ENERGY CO.,LTD.
T: + 86 755 2747 1900 F: + 86 755 2749 1460 E: info@growatt.com
A:Room 101, Building 1, Smart Green Energy Industrial Park, Buildings 1 to 7, No. 291 Yunchang Road, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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WIT 125~166K-XHU(D/WD) Core Advantages

01 Dual form, Multiple options



02 Highly Integrated



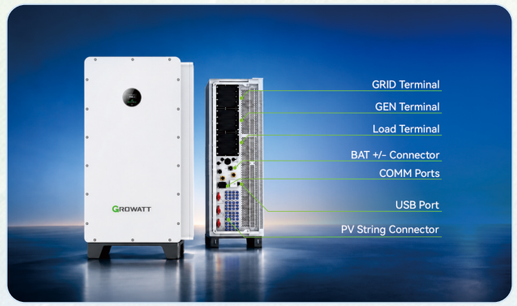
03 High Reliability&Adaptation



04 High Performance



05 Easy O&M



06 High Scalability

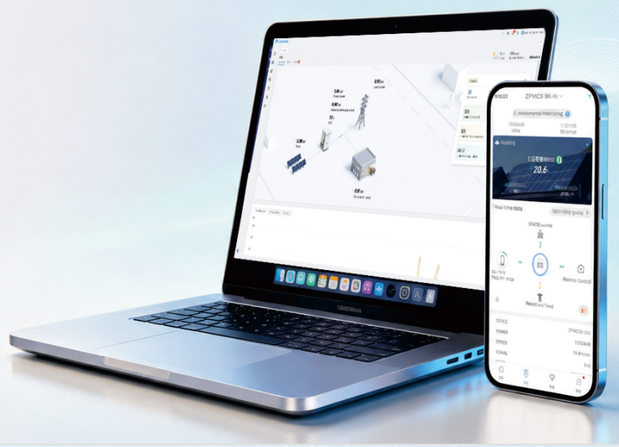


System Topology



Intelligent Control & Monitoring

- Quick site setup and commissioning
- Precise operation data display
- Clear visualization of user benefits
- Efficient energy management function and interface
- Supports remote upgrade and automatic upgrade detection.



Higher Safety

Lower operational risks and stable performance

Smarter Interaction

Easy commissioning and real-time monitoring

Easy O&M

All wiring interface integrated into one side , easy for Operation and Maintenance

High Compatibility

Compatible with
3rd-party BAT/ EMS / VPP