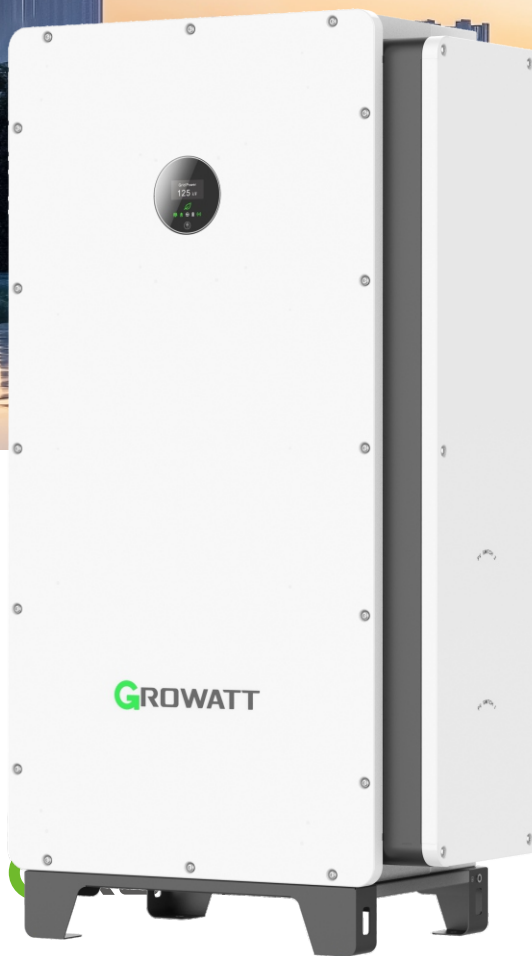


WIT 50-150kW 480V Hybrid Inverter

(WIT 50/63/75/85/100/125/150K-XHU-US)

- Multiple MPPTs input, 2.0 DC/AC ratio
- Wide battery voltage range
- 100% unbalanced load when backup
- 160% rated AC overload capability
- Built-in UPS function and black start
- Supports DG integration and smart load
- Scalable to 10 units for off-grid parallel operation
- Widely adaptable to third-party batteries



Preliminary Version

P O W E R
- I N G
T O M O R R O W

<https://us.growatt.com>

Datasheet	WIT 50K-XHU-US	WIT 63K-XHU-US	WIT 75K-XHU-US	WIT 85K-XHU-US	WIT 100K-XHU-US	WIT 125K-XHU-US	WIT 150K-XHU-US
Input Data (PV)							
Max. PV power (for module STC)	100kW	126kW	150kW	170kW	200kW	250kW	250kW
Start voltage				195V			
Max. open circuit voltage of PV				1000V			
MPPT nominal voltage/range				180V~1000V			
Max. input current per MPP tracker				42A			
Max. short-circuit current per MPP tracker				50A			
No. of PV strings per MPP tracker				2			
No. of MPP trackers				10			
Output Data (AC)							
AC nominal power	50kW	63kW	75kW	85kW	100kW	125kW	150kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA	165kVA
Nominal AC voltage/range				277/480V, -15%~+10%			
AC grid frequency/range				50/60Hz, 45-55Hz/55-65Hz			
Max. output current	66.2A	83.4A	99.3A	112.5A	132.4A	165.5A	198.6A
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				277/480V, -15%~+10%			
Nominal AC grid frequency/range				50/60Hz, 45-55Hz/55-65Hz			
AC grid connection type				3P3W+PE/3P4W+PE			
Rated input power	50kW	63kW	75kW	85kW	100kW	125kW	150kW
Max. input current				250A			
Battery Data (DC)							
Continuous charging/discharging power	50kW	63kW	75kW	85kW	100kW	125kW	150kW
Battery voltage range				180~1000V(>900V derating)			
Max charging/discharging current				200A			
BMS communication				RS485/CAN			
Backup Power (AC)							
Rated AC output power	50kW	63kW	75kW	85kW	100kW	125kW	150kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA	165kVA
Nominal AC voltage				277V(L-N), 480V(L-L)			
Nominal AC output frequency				50/60Hz			
Load connection				3P3W+PE/3P4W+PE			
Max. output current	66.2A	83.4A	99.3A	112.5A	132.4A	165.5A	198.6A
THDv				<3% (Linear load)			
Load unbalance				100% three-phase unbalanced			
Overload capacity				≤110%: Continues; 160%: 10s			
On/Off grid transfer time				≤10ms			
Efficiency							
Max. efficiency				98.5%			
Protection Devices							
DC 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				Yes			
General							
Dimensions (W/H/D)				720/1360/400mm			
Weight				160kg			
Operating temperature range				-30°C~60°C, >50°C derating			
Relative humidity				0~100%			
Altitude				≤4000m			
Topology				Transformerless			
Cooling				Smart air cooling			
Enclosure				IP66			
Display				OLED+LED/WIFI+APP			
Interfaces: RS485/CAN				Yes			
Interfaces: WIFI/4G/LAN				Opt			
Warranty (5/10 years)				Yes/Opt			
UL 1741:2021, IEEE 1547:2018, IEEE 1547.1:2020, HECO Rule 14, UL 1741 SA/SB:2020, CSA 22.3 No.9&CSA 22.2 No. 107, UL 1998, UL 1699B, UL 1741 Mutimod, CEC/SGIP, UL 3141, E 5000, FCC Part 15							

*1 The maximum open circuit voltage of PV string must be lower than the nominal voltage of the battery system connected to the inverter.

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