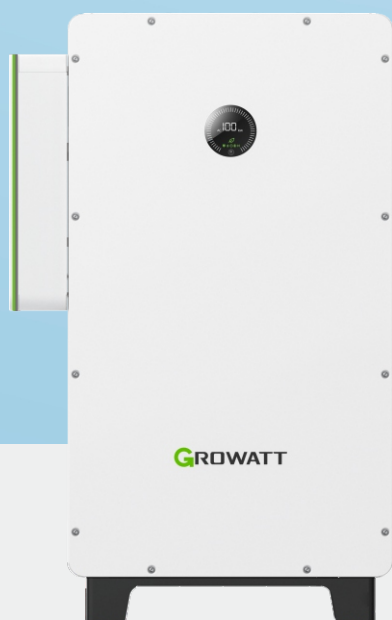


WIT 50-100kW US Hybrid Inverter

WIT 50-100K-H-US

- Scalable system configuration, extend to 300kW
- 110% continuous AC overloading capacity
- Support remote control of DG
- Multiple MPPTs input
- Grid-support functions



Preliminary Version

P O W E R
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Datasheet	WIT 50K-H-US	WIT 63K-H-US	WIT 75K-H-US	WIT 100K-H-US
Input Data (PV)				
Max. recommended PV power(for module STC)	109.2kW	124.8kW	156kW	156kW
Start voltage			195V	
Max. input voltage			1100V	
Max. open circuit voltage of PV*1			1000V	
MPPT nominal voltage/range			550V, 180V-800V	
Max. input current per MPP tracker			32A (16A per string)	
Max. short-circuit current per MPP tracker			40A (20A per string)	
No. of PV strings per MPP tracker			2	
No. of MPP trackers	7	8	10	10
Output Data (AC)				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Max. single phase power	16.6kW	21kW	25kW	33.3kW
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	132.4A
Adjustable power factor			-1...+1	
THDi			<3% (@100% load)	
AC grid connection type*2			3P3W+PE/3P4W+PE	
Input Data (AC)				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Nominal AC voltage/range			277/480V, -15%~+10%	
Nominal AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz	
Max. input current	66.2A	83.4A	99.3A	132.4A
Battery Data (DC)				
Continuous charging and discharging power	56.7kW	71.4kW	85.1kW	113.5kW
Battery voltage range*3		750-1000V for 3P3W / 820-1000V for 3P4W		
Max charging and discharging current	75.6A	95.2A	113.5A	151.3A
BMS communication			RS485/CAN	
Types of battery			Li-ion	
Efficiency				
Max. efficiency			98.2%	
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			Opt	
General				
Dimensions (W/H/D)			33.5/53.1/20.1 inch (850/1350/510mm)	
Weight	337.3 lbs (153kg)			352.7 lbs (160kg)
Operating temperature range			-22°F~+140°F, >122°F derating	
Relative humidity			0~100%	
Altitude			≤13123ft(4000m)	
Topology			Transformerless	
Cooling			Smart air cooling	
Enclosure			IP66/NEMA 4X	
Display			OLED+LED/WIFI+APP	
Interfaces: RS485/CAN			Yes	
Interfaces: WIFI/4G/LAN			Opt	
Warranty (5/10 years)			Yes/Opt	
UL1741:2021, UL1741 SA/SB:2020, IEEE1547:2018, IEEE1547.1:2020, HECO Rule14, E-5000, CSIP, SA17-SA18, UL1998:2018, CEC, FCC Part 15, CSA C22.2.107.1				

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

*2 For 3P4W connection type, the inverter is only compatible with APX commercial battery.

*3 Derating may occur above 900V. For safe operation above this range, please contact Growatt for guidance.

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