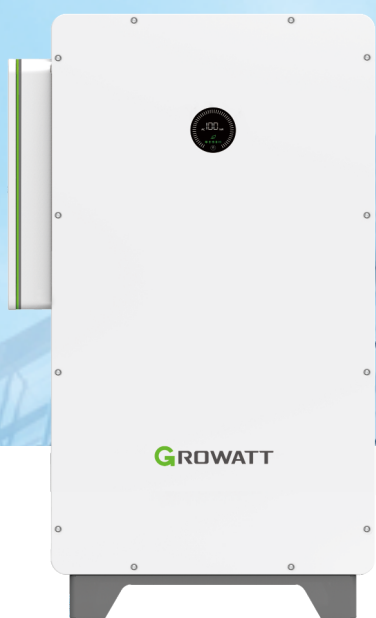


# WIT 50-100kW US Hybrid Inverter

WIT 50-100K-H-US, WIT 50-100K-HU-US

- Scalable system configuration, extend to 300kW
- Support UPS function and black start
- 100% unbalanced load when backup
- 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 50K-HU-US	WIT 63K-H-US WIT 63K-HU-US	WIT 75K-H-US WIT 75K-HU-US	WIT 100K-H-US WIT 100K-HU-US
<b>Input Data (PV)</b>				
Max. recommended PV power(for module STC)	109.2kW	124.8kW	156kW	156kW
Start voltage	195V			
Max. Input voltage	1100V			
MPPT voltage range	180V-800V, Nominal @550V			
Max. input current per MPP tracker	32A			
Max. short-circuit current per MPP tracker	40A			
No. of PV strings per MPP tracker	2			
No. of MPP trackers	7	8	10	10
<b>Output Data (AC)</b>				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Nominal AC voltage/range	480V, -15%~+10%			
AC grid frequency/range	60Hz, 55-65Hz			
Max. output current	66.2A	83.4A	99.3A	132.4A
Adjustable power factor	-1...+1			
THDi	<3%			
AC grid connection type*1	3P3W+PE/3P4W+PE			
<b>Input Data (AC)</b>				
AC nominal power	50kW/100kW	63kW/126kW	75kW/150kW	100kW/200kW
Max. AC apparent power	55kVA/100kVA	69.3kVA/126kVA	82.5kVA/150kVA	110kVA/200kVA
Nominal AC voltage/range	480V, -15%~+10%			
Nominal AC grid frequency/range	60Hz, 55-65Hz			
Max. input current	66.2A/120.3A	83.4A/151.6A	99.3A/180.5A	132.4A/240.7A
<b>Battery Data (DC)</b>				
Continuous charging and discharging power	56.7kW	71.4kW	85.1kW	113.5kW
Battery voltage range	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			
<b>Backup Power (AC)*2</b>				
Rated AC output power	50kW	63kW	75kW	100kW
Max. AC apparent power	60kVA	75.6kVA	90kVA	120kVA
Nominal AC voltage	277V(L-N) / 480V(L-L)			
Nominal AC output frequency	60 Hz			
Load connection*1	3P3W+PE/3P4W+PE			
Max. output current	72.2A	91A	108.3A	144.4A
THDv	<3% (Linear load)			
Load unbalance	100% three-phase unbalanced			
Overload capacity	≤110%: Continues; 110%~120%: 10min; >120%: 200ms			
On/off grid transfer time	≤16.6ms			
<b>Efficiency</b>				
Max. efficiency	98.2%			
<b>Protection Devices</b>				
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			
<b>General</b>				
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	-13°F~+140°F(-25°C~+60°C)>122°F,derating			
Relative humidity	0~100%			
Altitude	≤13123ft(4000m)			
Topology	Transformerless			
Cooling	Smart air cooling			
IP degree	IP66/NEMA 4X			
Display	OLED+LED/WIFI+APP			
Interfaces: RS485/CAN	Yes			
Interfaces: WIFI/4G/LAN-X	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, FCCPart 15

\*1 For 3P4W connection type, the inverter is only compatible with APX commercial battery.

\*2 The parameter of backup power is only available for WIT 50-100K-HU-US model.

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