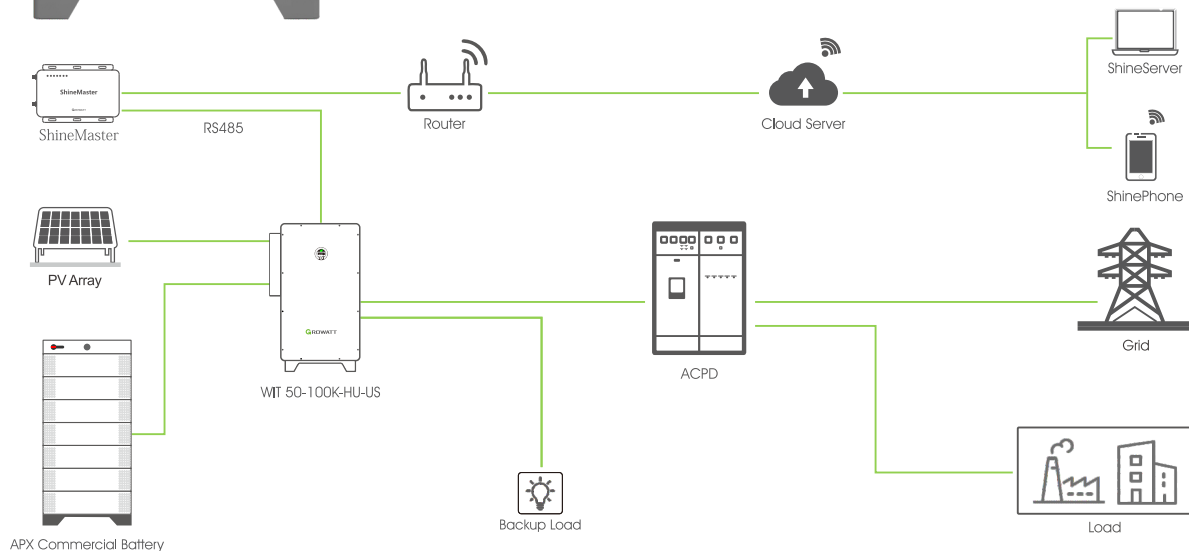
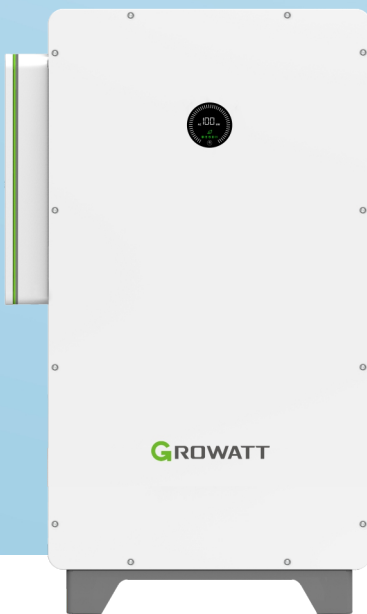


# WIT 50-100kW US Commercial Hybrid Inverter

WT 50-100K-H-US, WT 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



\* WIT 50-100K-H-US has one AC port for grid-tied application or off-grid application.

\* WIT 50-100K-HU-US has two AC ports, one is for grid connection while the other is for emergency power backup, therefore, it supports on/off grid transfer function.

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)	109200W	124800W	156000W	156000W
Start voltage			195V	
Max. Input Voltage			1100V	
MPP voltage range			180V-800V	
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	50000W	63000W	75000W	100000W
Max. AC apparent power	55KVA	69.3KVA	82.5KVA	110KVA
Nominal AC voltage			480V	
AC voltage range			-15%~+10%	
AC grid frequency			50/60 Hz	
AC grid frequency range			45-55Hz/55-65Hz	
Max. output current	66.2A	83.4A	99.3A	132.4A
Adjustable power factor			-1...+1	
THDi			<3%	
AC grid connection type			3P3W+PE	
<b>Battery data (DC)</b>				
Continuous charging and discharging power	56.7KW	71.4KW	85.1KW	113.5KW
Battery voltage range			750-1000V	
Recommended battery voltage			819.2V	
Max charging and discharging current	75.6A	95.2A	113.5A	151.3A
BMS communication			RS485/CAN	
<b>Backup power (AC)*</b>				
Rated AC output power	50KW	63KW	75KW	100KW
Max. AC apparent power	60KVA	75.6KVA	90KVA	120KVA
Nominal AC voltage			480V	
Nominal AC output frequency			50/60 Hz	
Load connection			3P3W+PE	
Max. output current	72.2A	91A	108.3A	144.4A
THDv			<3% (Linear load)	
Load unbalance			100% three-phase unbalanced	
Overload			≤110% : Continues 110%~120% : 10min >120% : 200ms	
On/off grid transfer time			20ms	
<b>Efficiency</b>				
Max. efficiency			98%	
MAX. Battery charge/discharge efficiency			98%	
<b>Protection devices</b>				
DC reverse polarity protection			Yes	
Battery reverse protection			Yes	
AC/DC surge protection			Class 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)			32.3/53.1/20.1 inch (820/1350/510mm)	
Weight	293.3 lbs (133kg)	293.3 lbs (133kg)	308.7 lbs (140kg)	308.7 lbs (140kg)
Operating temperature range			-22°F~+140°F(-30°C~+60°C)>122°F,derating	
Relative humidity			0~100%	
Altitude			13123ft(4000m)	
Topology			Transformerless	
Cooling			Smart air cooling	
IP degree			NEMA4X(IP66)	
Display			OLED+LED/WIFI+APP	
Interfaces: RS485/CAN/USB			Yes	
Interfaces: WIFI/4G/LAN-X			Opt	
Warranty (5/10 years)			Yes/Opt	

UL1741:2021,UL 1741 SA/8B:2020, IEEE1547:2018,IEEE1547.1:2020,HECO RULe 14,E-5000,CSIPSA17-SA18,UL1998:2018,CEC,FCCPart 15

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