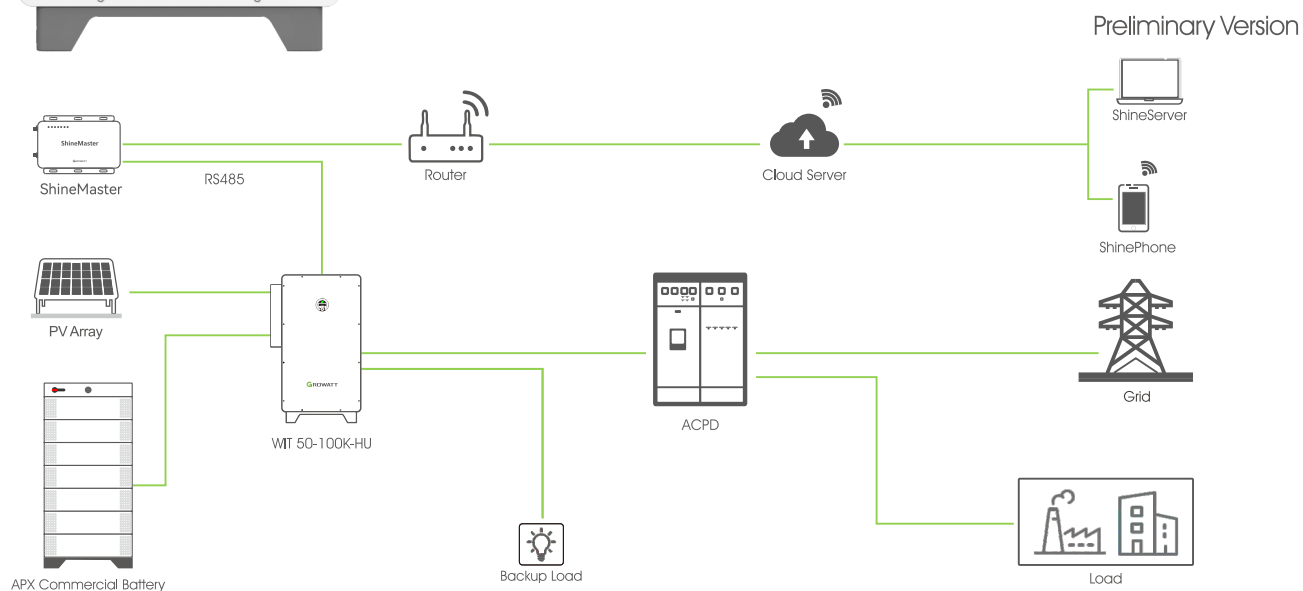
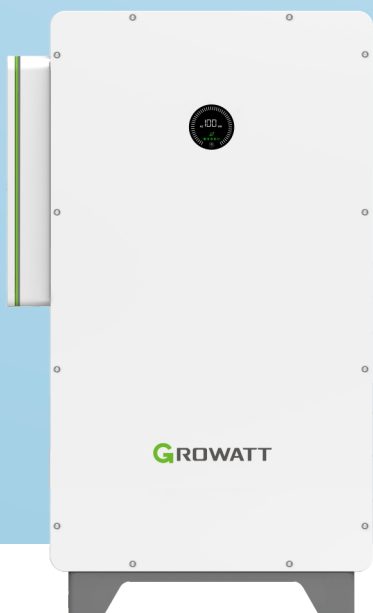


# WIT 50-100kW Commercial Hybrid Inverter

(WIT 50-100K-H, WIT 50-100K-HU)

- 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 has one AC port for grid-tied application or off-grid application.

\* WIT 50-100K-HU 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 WIT 50K-HU	WIT 63K-H WIT 63K-HU	WIT 75K-H WIT 75K-HU	WIT 100K-H WIT 100K-HU
<b>Input data (PV)</b>				
Max. recommended PV power(for module STC)	109200W	124800W	156000W	156000W
Start voltage			195V	
Nominal voltage			550V	
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			380/400/415V	
AC voltage range			-15%~+10%	
AC grid frequency			50/60 Hz	
AC grid frequency/range			45-55Hz/55-65Hz	
Max. output current	83.3A@380V 79.7A@400V	105A@380V 100.4A@400V	125A@380V 119.6A@400V	166.7@380V 159.4A@400V
Adjustable power factor			-1...+1	
THDi			< 3%	
AC grid connection type			3P3W+PE/3P4W+PE	
<b>Battery data (DC)</b>				
Continuous charging and discharging power	56.7KW	71.4KW	85.1KW	113.5KW
Battery voltage range		600-1000V (for 3P3W) / 680-1000V (for 3P4W)		
Recommended battery voltage		768V		
Max charging and discharging current	83.3A	105A	125A	167A
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
Rated AC output voltage		220V/230V/240V/380V/400V/415V		
Nominal AC output frequency		50/60 Hz		
Load connection		3W+N+PE		
Max. output current	90.9A	114.5A	136.4A	181.8A
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			98.0%	
MAX. Battery charge/discharge efficiency			98.0%	
<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)			820/1350/510mm	
Weight	133kg	133kg	140kg	140kg
Operating temperature range			-30 °C~60 °C (> 50°C, derating)	
Relative humidity			0~100%	
Altitude			4000m	
Topology			Transformerless	
Cooling			Smart air cooling	
IP degree			IP66	
Display			OLED+LED/WIFI+APP	
Interfaces: RS485/CAN/USB			Yes	
Interfaces: WIFI/4G/LAN-X			Opt	
Warranty (5/10 years)			Yes/Opt	

GB/T 34120-2017, IEC/EN61000-6-1, IEC/EN61000-6-3, IEC/EN62477-1, IEC/EN62109-1, IEC/EN62109-2, IEC62116, IEC61727, G99-2020, EN50549-1, VDE 4105, VDE 0124, NRS 097-2-1

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

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