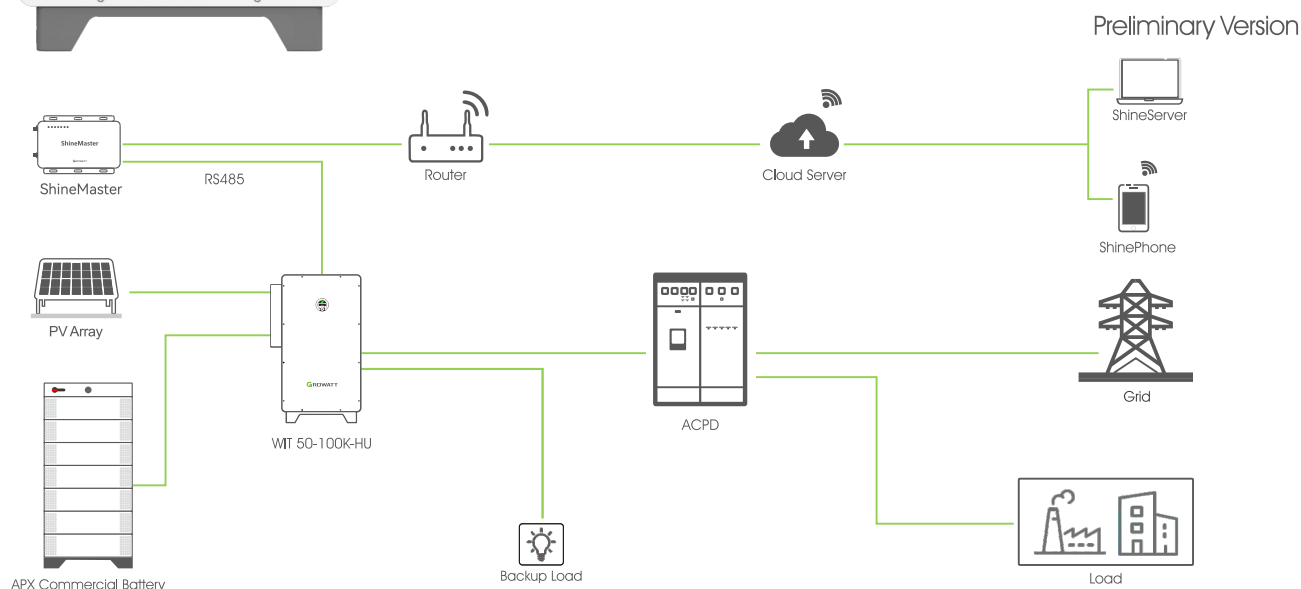
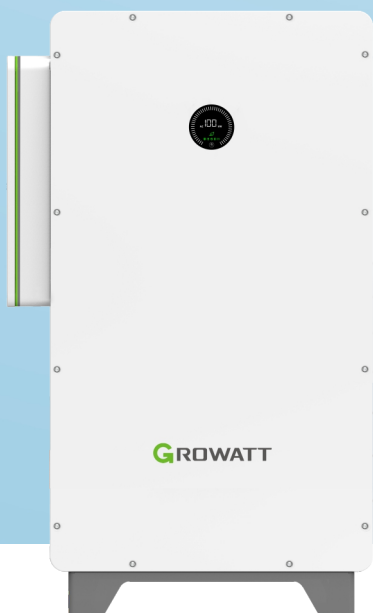


WIT 50-100kW Commercial Hybrid Inverter

(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
Input data (PV)				
Max. recommended PV power(for module SIC)	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
Output data (AC)				
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	
Battery data (DC)				
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		
Backup power (AC)*				
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		
Efficiency				
Max. efficiency		98.0%		
MAX. Battery charge/discharge efficiency		98.0%		
Protection devices				
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		
PD Protection		Yes		
AFCI Function		Opt		
General				
Dimensions (W / H / D)		820/1350/510mm		
Weight	133kg	133kg	140kg	140kg
Operating temperature range		-30℃~60℃ (> 50℃, 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/EN61000-6-3, 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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