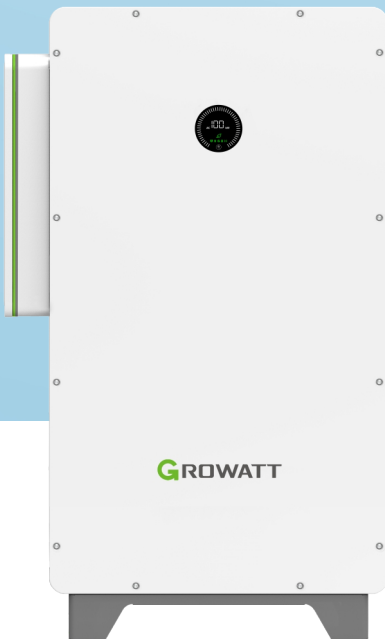


WIT 50-100kW Hybrid Inverter

(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



Preliminary Version

P O W E R
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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 STC)	109.2kW	124.8kW	156kW	156kW
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	50kW	63kW	75kW	100kW
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(L-N) 380V/400V/415V(L-L)			
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 capacity	≤110% , Continues; 110%~120% , <1min; >120% , 200ms			
On/off grid transfer time	20ms			
Efficiency				
Max. efficiency	98.2%			
Protection Devices				
PV 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)	820/1350/510mm			
Weight	153kg	153kg	160kg	160kg
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/APP			
Interfaces: RS485/CAN/USB	Yes			
Interfaces: WIFI/4G/LAN-X	Opt			
Warranty (5/10 years)	Yes/Opt			
EN 62920-2017, 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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