

WIT 63-125kW Hybrid Inverter

(WIT 63/75/85/100/125K-XHU(W))

- Multiple MPPTs input, 2.0 DC/AC ratio
- Wide battery voltage range
- 100% unbalanced load when backup
- 160% rated AC overload capability
- Built-in UPS function and black start
- Supports DG integration and smart load
- Scalable to 10 units for off-grid parallel operation
- Widely adaptable to third-party batteries



Preliminary Version

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Datasheet	WIT 63K-XHU(W)	WIT 75K-XHU(W)	WIT 85K-XHU(W)	WIT 100K-XHU(W)	WIT 125K-XHU(W)
Input Data (PV)					
Max. recommended PV power (for module STC)	126kW	150kW	170kW	200kW	250kW
Start voltage			195V		
Max. open circuit voltage of PV			1000V		
MPPT nominal voltage/range			180V-1000V		
Max. input current per MPP tracker			42A		
Max. short-circuit current per MPP tracker			50A		
No. of PV strings per MPP tracker			2		
No. of MPP trackers			10		
Output Data (AC)					
AC nominal power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage/range			380/400/415V, -15%~+10%		
AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
Max. output current	105A	125A	141.7A	166.7A	208.3A
Adjustable power factor			-1...+1		
THDi			<3% (@100% load)		
AC grid connection type			3P3W+PE/3P4W+PE		
Input Data (AC/GEN)					
Nominal AC voltage/range			380/400/415V, -15%~+10%		
Nominal AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
AC grid connection type			3P3W+PE/3P4W+PE		
Rated input power	63kW	75kW	85kW	100kW	125kW
Max. input current			250A		
Battery Data (DC)					
Continuous charging and discharging power	63kW	75kW	85kW	100kW	125kW
Battery voltage range			180-1000V(>900V derating)		
Max charging and discharging current			200A		
BMS communication			RS485/CAN		
Backup Power (AC)					
Rated AC output power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage			220/230/240V(L-N), 380/400/415V(L-L)		
Nominal AC output frequency			50/60Hz		
Load connection			3P3W+PE/3P4W+PE		
Max. output current	105A	125A	141.7A	166.7A	208.3A
THDv			<3% (Linear load)		
Load unbalance			100% three-phase unbalanced		
Overload capacity			≤110%: Continues; 160%: 10s		
On/Off grid transfer time			≤10ms		
Efficiency					
Max. efficiency			98.5%		
Protection Devices					
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		
AFCl function			Yes		
General					
Dimensions (W/H/D)			1260/665/428mm		
Weight			160kg		
Operating temperature range			-30°C~60°C, >50°C derating		
Relative humidity			0~100%		
Altitude			≤4000m		
Topology			Transformerless		
Cooling			Smart air cooling		
Enclosure			IP66		
Display			OLED+LED/WIFI+APP		
Interfaces: RS485/CAN			Yes		
Interfaces: WIFI/4G/LAN			Opt		
Warranty (5/10 years)			Yes/Opt		
IEC/EN 62109-1/2; IEC/EN 61000, IEC/EN 62920; EN 50549-1/10					

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