WIT 8K-15K -HU



- Max. string current up to 20A
- Max. charging/discharging current of 290A
- Supports Max 6 pcs in parallel
- 100% unbalanced load when backup
- 110% continuous AC overloading capacity
- Support UPS function and black start
- Integrated with generator input and smart load control

Datasheet	WIT 8K-HU	WIT 10K-HU	WIT 12K-HU	WIT 15K-HU
Input data (PV)				
Max. recommended PV power (for module STC)	12800W	16000W	19200W	24000W
Max. input voltage	1000V			
Start voltage	180V			
Nominal voltage	600V			
MPPT voltage range	160V-850V			
Max. input current per MPP tracker	20A		40AA	
Max. short-circuit current per MPP tracker	25A		50A	
No. of PV strings per MPP tracker	1+1		2+1	
No. of MPP trackers	2			
Output data (AC)				
AC nominal power	8000W	10000W	12000W	15000W
Max. AC apparent power	8800VA	11000VA	13200VA	16500VA
Nominal AC voltage/range	220V/230V, 380V/400V, -15%~+10%			
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55~65 Hz			
Max. output current	13.3A@220V, 12.8A@230V	16.7A@220V, 15.9A@230V	20A@220V, 19.1A@230V	25A@220V, 23.9A@230V
Adjustable power factor	-1…+1			
THDi	<3%			
AC grid connection type	3P3W+PE/3P4W+PE			
Input data (AC)				
AC nominal power	16000W	20000W	24000W	30000W
Max. AC apparent power	17600VA	22000VA	26400VA	33000VA
Nominal AC voltage/range	220V/230V, 380V/400V, -15%~+10%			
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55~65 Hz			
Max. input current	26.6A@220V, 25.5A@230V	33.3A@220V, 31.9A@230V	40A@220V, 38.3@230V	50.1A@220V, 47.8A@230V
Battery data (DC)				
Battery type	Lead-acid or Lithium-ion			
Battery voltage range	40-60V			
Max charging and discharging current	200A	220A	250A	290A
Recommended battery voltage	51.2V			
BMS communication	RS485/CAN			
Backup power (AC)*				
Rated AC output power	8000W	10000W	12000W	15000W
Max. AC apparent power	2 time of rated power, 10s			
Rated AC output voltage	220V/230V, 380V/400V			
Nominal AC output frequency	50/60Hz			
Max. output current	24.2A@220V 23.2A@230V	30.3A@220V 29A@230V	36.4A@220V 34.8A@230V	45.5A@220V 43.4A@230V
THDv	3% (Linear load)			
Load unbalance	100% three-phase unbalanced			
On/off grid transfer time	10ms			
Efficiency				
Max. efficiency	97.60%			
European efficiency	97.00%			
MPPT efficiency	99.90%			
Protection devices				
PV reverse polarity protection	Yes			
DC switch	Yes			
DC/AC surge protection	Type II/Type III			
Insulation resistance monitoring	Yes			
Residual-current monitoring unit	Yes			
AC short-circuit protection	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
Strings monitoring	Yes			
Anti-islanding protection	Yes			
PID protection	Opt			
AFCI function	Opt			
General				
Dimensions (W / H / D)	475/698/240mm			
Weight	38kg			
Operating temperature range	-30℃ ... +60℃ (> 45℃, derating)			
Noise	≤50dB(A)			
Relative humidity	0~100%			
Altitude	3000m			
Topology	Transformerless			
Cooling	Smart air cooling			
IP degree	IP66			
Display	OLED/LED+APP			
Interfaces: RS485/USB	Yes			
Interfaces: WIFI/LAN	Yes			
Warranty (5/10 years)	Yes/Opt			
IEC62109, EC 61000, IEC 61727, EC 62116, IEC 61683, IEC 60068, EN 50549, VDE 4105				