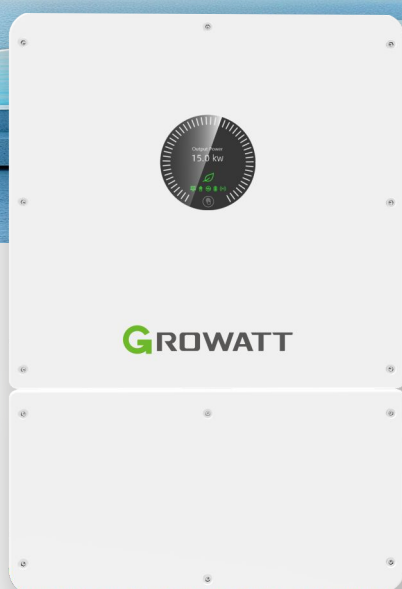


WIT 4-15K-HU

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



P O W E R
- I N G
T O M O R R O W

Datasheet	WIT 4K-HU	WIT 5K-HU	WIT 6K-HU	WIT 8K-HU	WIT 10K-HU	WIT 12K-HU	WIT 15K-HU
Input data (PV)							
Max. recommended PV power (for module STC)	6400W	8000W	9600W	12800W	16000W	19200W	24000W
Max. input voltage				1000V			
Start voltage				180V			
Nominal voltage				600V			
Operating voltage				150V-850V			
MPPT voltage range	200V-750V	250V-750V	300V-750V	400V-750V	500V-750V	400V-750V	400V-750V
Max. input current per MPP tracker	40A			20A		40A	
Max. short-circuit current per MPP tracker	50A			25A		50A	
No. of PV strings per MPP tracker	2			1		2/1	
No. of MPP trackers	1			2		2	
Output data (AC)							
AC nominal power	4000W	5000W	6000W	8000W	10000W	12000W	15000W
Max. AC apparent power	4400VA	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA
Nominal AC voltage/range	220V/380V, 230V/400V, -15%~+10%						
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55-65 Hz						
Max. output current	6.7A@220V, 6.4A@230V	8.4A@220V, 7.9A@230V	10.0A@220V, 9.6A@230V	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	8000W	10000W	12000W	16000W	20000W	24000W	30000W
Max. AC apparent power	8800VA	11000VA	13200VA	17600VA	22000VA	26400VA	33000VA
Nominal AC voltage/range	220V/380V, 230V/400V, -15%~+10%						
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55-65 Hz						
Max. input current	13.4A@220V, 12.8A@230V	16.7A@220V, 15.8A@230V	20.0A@220V, 19.1A@230V	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/Rated voltage	40-60V/51.2V						
Max charging and discharging current	110A	125A	150A	200A	220A	250A	290A
BMS communication	RS485/CAN						
Backup power (AC)*							
Rated AC output power	4000W	5000W	6000W	8000W	10000W	12000W	15000W
Max. AC apparent power	2 time of rated power, 10s ^{*1}						
Rated AC output voltage	220V/380V, 230V/400V						
Nominal AC output frequency	50/60Hz						
Max. output current	12.2A@220V 11.6A@230V	15.2A@220V 14.4A@230V	18.2A@220V 20.0A@230V	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°C ... +60°C (> 45°C, 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							

*1 200% overloading function will be ready in 2025 Q1.

* Additional Features of max. 6 units in parallel will be ready in 2025 Q2, if you're interested in it, you can consult with our sales about the real-time states.