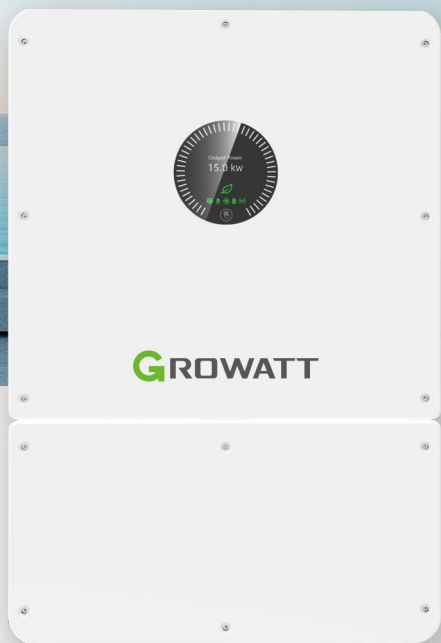


# WIT 4-15K-HU

- 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



Preliminary Version

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

**GROWATT**



Datasheet	WIT 4K-HU	WIT 5K-HU	WIT 6K-HU	WIT 8K-HU	WIT 10K-HU	WIT 12K-HU	WIT 15K-HU
<b>Input data (PV)</b>							
Max. recommended PV power (for module STC)	6400W	8000W	9600W	12800W	16000W	19200W	24000W
Max. input voltage	1000V						
Start voltage	180V						
Nominal voltage	600V						
MPPT voltage range	150V-850V						
Max. input current per MPP tracker	32A	40A		20A		40A	
Max. short-circuit current per MPP tracker	50A	50A		25A		50A	
No. of PV strings per MPP tracker	2	2		1		2/1	
No. of MPP trackers	1	1		2		2	
<b>Output data (AC)</b>							
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						
<b>Input data (AC)</b>							
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
<b>Battery data (DC)</b>							
Battery type	Lead-acid or Lithium-ion						
Battery voltage range	40-60V						
Max charging and discharging current	110A	125A	150A	200A	220A	250A	290A
Recommended battery voltage	51.2V						
BMS communication	RS485/CAN						
<b>Backup power (AC)*</b>							
Rated AC output power	4000W	5000W	6000W	8000W	10000W	12000W	15000W
Max. AC apparent power	2 time of rated power, 10s						
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						
<b>Efficiency</b>							
Max. efficiency	97.60%						
European efficiency	97.00%						
MPPT efficiency	99.90%						
<b>Protection devices</b>							
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						
<b>General</b>							
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						