GROWATT

WIT 4-15K-HU

- Max. string current up to 20A
- Max. charging/discharging current up to 290A
- 100% unbalanced output: each phase up to 50% rated power
- 200% overload capability for 10 seconds
- Supports Max 10 pcs in parallel
- Integrated with generator input and smart load control

POWER-ING TOMO-RROW

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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						
MPPT working voltage range	150V-850V						
Max. input current per MPP tracker	40A			20A		40+20 A	
Max. short-circuit current per MPP tracker	50A			25A		50+25A	
No. of PV strings per MPP tracker	2			1		2/1	
No. of MPP trackers	1			2		2	
Input/Output AC (Including the Gen Port)							
AC input/output nominal power(Grid)	8000W/4000W	10000W/5000W	12000W/6000W	16000W/8000W	20000W/10000W	24000W/12000W	30000W/15000W
Max. AC input/output apparent power(Grid)	8800VA/4400VA	11000VA/5500VA	13200VA/6600VA	17600VA/8800VA	22000VA/11000VA	26400VA/13200VA	33000VA/16500VA
Max. input/output current(Grid)	13.4A/6.7A	16.7A/8.4A	20.0A/10.0A	26.6A/13.3A	33.3A/16.7A	40.0A/20.0A	50.1A/25.0A
Max. input current(GEN/AC couple)	12.2A/6.1A	15.2A/7.6A	18.2A/9.1A	24.2A/12.1A	30.3A/15.2A	36.4A/18.2A	45.4A/22.7A
Nominal AC voltage/range	220V/380V, 230V/400V, -15%~+10%						
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55-65 Hz						
Adjustable power factor	-1…+1						
THDi	<3%						
AC grid connection type	3P3W+PE/3P4W+PE						
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						
Rated AC output voltage	220V/380V, 230V/400V						
Nominal AC output frequency	50/60Hz						
Max. output current	12.2A	15.2A	18.2A	24.2A	30.3A	36.4A	45.5A
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						
AFCI function	Opt						
General							
Dimensions (W / H / D)	475/698/240mm						
Weight	43kg						
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						
Monitor	ShineWilan-X2						
Warranty: 10 years	Yes						
IEC62109, EC 61000, IEC 61727, EC 62116, IEC 61683, IEC 60068, EN 50549, VDE 4105							

SHENZHEN GROWATT NEW ENERGY CO.,LTD.
T: + 86 755 2747 1900 F: + 86 755 2749 1460
A: 4-13/F,Building A,Sino-German(Europe)Industrial Park,Hangcheng Ave,Bao'an District,Shenzhen,China
E: info@growatt.com