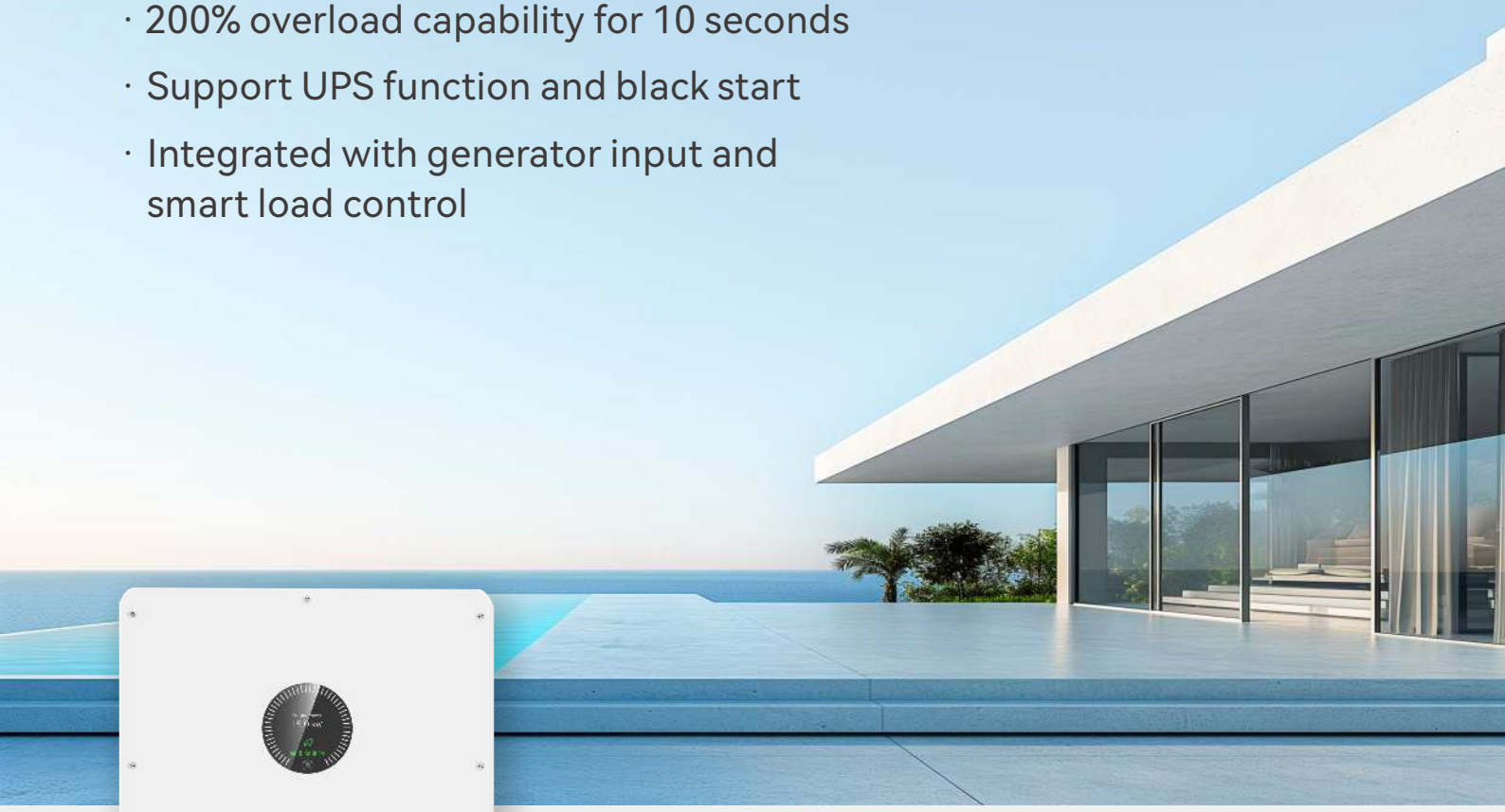
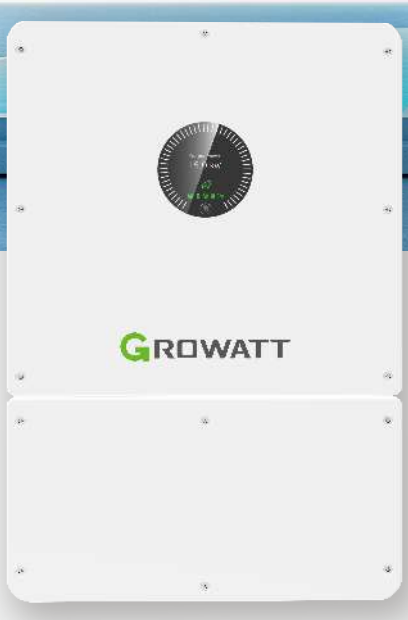
GROWATT

WIT 4-15K-HU

- Max. string current up to 20A
- Max. charging/discharging current of 290A
- 100% unbalanced output: each phase up to 50% rated power
- 200% overload capability for 10 seconds
- Support UPS function and black start
- Integrated with generator input and smart load control





POWER-INGO
TOMO-RROW

en.growatt.com

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 voltage range	150V-850V						
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						
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	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						
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							

* Addtional 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.

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@ginverter.com