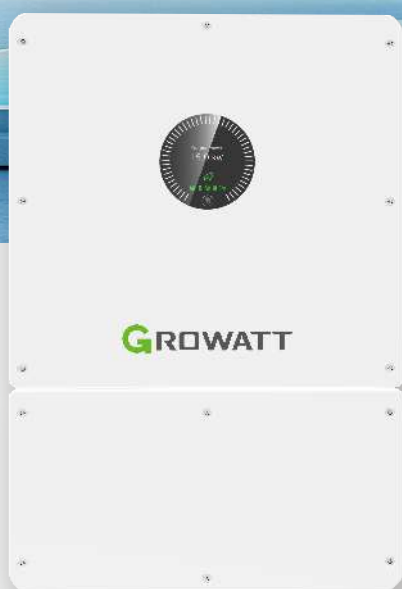


WIT 4-15K-HU

- 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



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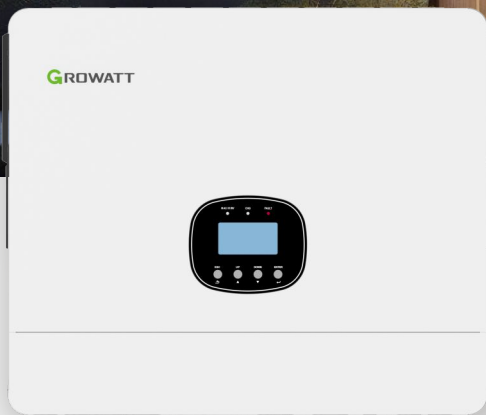
Datasheet	WIT 4K-HU	WIT 5K-HU	WIT 6K-HU	WIT 8K-HU	WIT 10K-HU	WIT 12K-HU	WIT 15K-HU
Input data (PV)							
Max. recommended PV power (for module STC)	6400W	8000W	9600W	12800W	16000W	19200W	24000W
Max. input voltage	1000V						
Start voltage	180V						
Nominal voltage	600V						
MPPT voltage range	150V-850V						
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							

* 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.

SPE 8000~12000 ES

Hybrid solar inverter

- Dual MPP trackers
- Maximum PV input voltage up to 550VDC
- Two AC input terminals with integrated transfer switch
- Featuring grid-tied function for peak shaving
- Support parallel operation for capacity expansion up to 108kW.
- Dual outputs for smart load management



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Datasheet	SPE 8000 ES	SPE 10000 ES	SPE 12000 ES
Input data (DC)			
Max. recommended PV power (for module STC)	10000W	12500W	15000W
Max. DC voltage		550V	
Start voltage		120V	
MPP voltage range		60V-480V	
No. of MPP trackers		2	
No. of PV strings per MPP tracker		1	
Max. input current per MPP tracker		27A	
Output data (AC)			
AC nominal power	8000W	10000W	12000W
Max. AC apparent power	8000VA	10000VA	12000VA
Nominal AC voltage		230V	
AC grid frequency		50/60Hz	
Output current	34.8A	43.5A	52.2A
Adjustable power factor		0.8leading...0.8lagging	
THDi		< 5%	
Max. conversion efficiency (PV/AC)		96.5%	
European efficiency @ vnominal (PV/AC)		95.5%	
Battery data (DC)			
Nominal DC voltage		48V	
Max charging and discharging current	190A/200A	220A/240A	250A/280A
Type of battery		Lithium/Lead-acid	
Backup power (AC)			
AC nominal output power	8000W	10000W	12000W
Nominal AC output voltage		230V	
Nominal AC output frequency		50/60Hz	
Switch time		<20ms@Single <30ms@Parallel	
Efficiency			
Peak. efficiency		96.5%	
European efficiency		95.5%	
General data			
Dimensions (W / H / D)		550/465/150mm	
Weight		21.5kg	
Operating temperature range		-10°C ... +50°C	
Noise emission (typical)		< 75dB	
Self-consumption		< 75W	
Topology		Tranformerless	
Cooling		DC fan	
Protection degree		IP20	
Relative humidity		5%~95% non-condensing	
Altitude		< 2000m	
Communication		WiFi/4G	
CE, NRS097			

SPM 3000~6000TL-HU

- UPS function, 10ms transition
- 1.5 DC/AC ratio with 2 MPPTs
- Up to 140A charging/discharging current
- Support DC-coupled, AC-coupled, AC-retrofit applications
- Type II Surge protection for DC and AC sides
- Support charge from diesel generator
- Support up to 6 units in parallel
- Support form a 400V three-phase system



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Datasheet		SPM 3000TL-HU	SPM 3600TL-HU	SPM 4000TL-HU	SPM 4600TL-HU	SPM 5000TL-HU	SPM 5500TL-HU	SPM 6000TL-HU
Input data (DC)								
Max. recommended PV power (for module STC)	4500W	5400W	6000W	6900W	7500W	8250W	9000W	
Max. input power for single MPPT				4500W				
Max. DC voltage				600V				
Start voltage				130V				
MPPT voltage range				150V-550V				
No. of MPP trackers				2				
No. of PV strings per MPP tracker				1				
Max. input current per MPP tracker				22A				
Max. short-circuit current per MPP tracker				27.5A				
AC input data (AC)								
Nominal AC input power	3000W	3600W	4000W	4600W	5000W	5500W	6000W	
Nominal input voltage				220V/230V/240V				
Nominal input current	13.1A	15.7A	17.4A	20A	21.8A	24A	26.1A	
Max. grid passthrough current	16.6A	20A	22.2A	25.5A	27.7A	30.5A	33.3A	
Max. generator input power				9200W				
Output data (AC)								
AC nominal power	3000W	3600W	4000W	4600W	5000W	5500W	6000W	
Max. AC apparent power	3000VA	3600VA	4000VA	4600VA	5000VA	5500VA	6000VA	
Nominal AC voltage (range*)				220V/230V/240V				
AC grid frequency (range*)				50Hz/60Hz				
Max. output current	13.1A	15.7A	17.4A	20A	21.8A	24A	26.1A	
Adjustable power factor				0.8leading...0.8lagging				
THDi				<3%				
Battery data (DC)								
Battery voltage range				40~60V				
Max charging and discharging current	70A	90A	100A	110A	120A	130A	140A	
Continuous charging and discharging power	3000W	3600W	4000W	4600W	5000W	5500W	6000W	
Type of battery				Lithium battery/Lead-acid battery				
Backup power (AC)								
AC nominal output power	3000W	3600W	4000W	4600W	5000W	5500W	6000W	
Nominal AC output voltage				230V single phase				
Nominal AC output frequency				50/60Hz				
Switch time				<10ms				
Overload capability				200% Full Load@5S				
Efficiency								
Peak. efficiency				98.10%				
Europe efficiency				97.60%				
MPPT efficiency				99.00%				
Protection devices								
PV switch				Yes				
AC over current protection				Yes				
AC over voltage protection				Yes				
Ground fault monitoring				Yes				
Grid monitoring				Yes				
Anti-islanding protection				Yes				
Residual-current monitoring unit				Yes				
Insulation resistance monitoring				Yes				
Surge protection				DC Type II / AC Type II				
General data								
Max stackable number				6				
Dimensions (W / H / D)				330/580/232mm				
Weight				26kg				
Operating temperature range				-25~60°C, >45°C Derating				
Noise emission (typical)				≤ 30 dB(A)				
Self-Consumption				< 60 W				
Topology				Tranformerless				
Cooling				Natural				
Protection degree				IP65				
Relative humidity				0~100%				
Altitude				< 2000m				
Display				LCD touch screen				
Interfaces: RS485/CAN/USB				Yes				
Communication				WIFI/LAN				
Warranty				5 years				
EN50549, CE-EMC, CE-LVD, IEC62116, IEC61727								

EN50549, CE-EMC, CE-LVD, IEC62116, IEC61727

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SPM 8000~10000TL-HU

- UPS function, 10ms transition
- 2.0 DC/AC Ratio with 3 Mppts
- DC-coupled and AC-coupled applications
- Type II Surge protection for DC and AC sides
- Support charge from diesel generator
- Support for a 400V three-phase system
- Support up to 6 units in parallel



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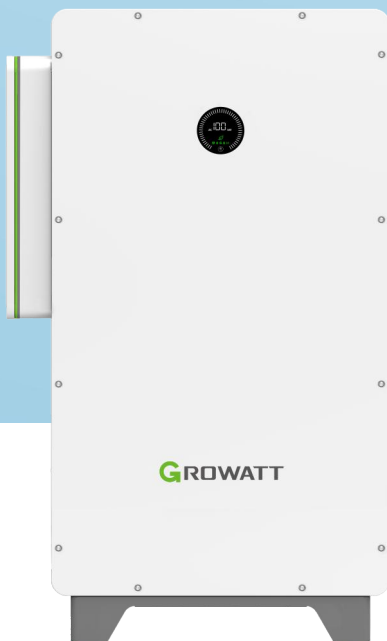
Datasheet	SPM 8000TL-HU	SPM 10000TL-HU
Input data (DC)		
Max. recommended PV power (for module STC)	16000W	20000W
Max. input power for single MPPT	8000W+8000W+8000W	8000W+8000W+15000W
Max. DC voltage	600V	600V
Start voltage	120V	120V
MPP voltage range	150-500V/370V	150-500V/370V
No. of MPP trackers	3	3
No. of PV strings per MPP tracker	1	2
Max. input current per MPP tracker	16A	16A+16A+32A
Max. short-circuit current per MPP tracker	22A	20A+20A+40A
AC input data (AC)		
Nominal AC input power	8000W	9999W
Nominal input voltage	230V	230V
Nominal input current	34.8A	43.5A
Max. grid passthrough power	12000W	15000W
Max. generator input power	8000W	9999W
Output data (AC)		
AC nominal power	8000W	9999W
Max. AC apparent power	8000VA	9999VA
Nominal AC voltage (range*)	230V	230V
AC grid frequency (range*)	50Hz	50Hz
Max. output current	40A	50A
Adjustable power factor	0.8leading...0.8lagging	
THDi	<3%	
AC grid connection type	Single phase	
Battery data (DC)		
Battery voltage range	40~60V	
Max charging and discharging current	165A	200A
Continuous charging and discharging power	8000W	9999W
Communication protocol	CAN/RS485	
Type of battery	Lithium battery/Lead-acid battery	
Backup power (AC)		
AC nominal output power	8000W	9999W
Nominal AC output voltage	230V single phase	
Nominal AC output frequency	50Hz	
Switch time	<10ms	
Overload capability	120% Full Load@5S	
Efficiency		
Peak. efficiency	97.50%	
Europe efficiency	96.50%	
MPPT efficiency	≥99.5%	
Protection devices		
PV switch	Yes	
AC over current protection	Yes	
AC over voltage protection	Yes	
Ground fault monitoring	Yes	
Grid monitoring	Yes	
Anti-islanding protection	Yes	
Residual-current monitoring unit	Yes	
Insulation resistance monitoring	Yes	
AFCI protection	Yes	
Surge protection	Yes	
General data		
Max stackable number	6	
Dimensions (W / H / D)	440/883/256mm	
Weight	48.84kg	
Operating temperature range	-25°C ... +60°C with derating above 45°C	
Noise emission (typical)	≤ 30 dB(A)	
Self-Consumption	< 75 W	
Topology	Tranformerless	
Cooling	Smart cooling	
Protection degree	IP65	
Relative humidity	0~100%	
Altitude	2000m	
Display	LCD touch screen	
Interfaces: RS485/CAN/USB	Yes	
Communication	WIFI/LAN	
Warranty	10 years	
CE, G99, G100, AS 477.2:2020, AS 60947.3, CSIP-AUS		

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WIT 50-100kW Hybrid Inverter

(WIT 50-100K-H, WIT 50-100K-HU)

- Scalable system configuration, extend to 300kW
- Support UPS function and black start
- 100% unbalanced load when backup
- 110% continuous AC overloading capacity
- Support remote control of DG
- Multiple MPPTs input
- Grid-support functions



Preliminary Version

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Datasheet	WIT 50K-H WIT 50K-HU	WIT 63K-H WIT 63K-HU	WIT 75K-H WIT 75K-HU	WIT 100K-H WIT 100K-HU
Input Data (PV)				
Max. recommended PV power(for module STC)	109.2kW	124.8kW	156kW	156kW
Start voltage		195V		
Max. input voltage		1100V		
Max. open circuit voltage of PV*1		1000V		
MPPT nominal voltage/range		550V,180V~800V		
Max. input current per MPP tracker		32A		
Max. short-circuit current per MPP tracker		40A		
No. of PV strings per MPP tracker		2		
No. of MPP trackers	7	8	10	10
Output Data (AC)				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Nominal AC voltage/range	380/400/415V,-15%~+10%			
Nominal AC grid frequency/range	50/60Hz,45~55Hz/55~65Hz			
Max. output current	83.3A	105A	125A	166.7A
Adjustable power factor	-1...+1			
THDi	<3% (@100% load)			
AC grid connection type	3P3W+PE/3P4W+PE			
Input Data (AC)				
AC nominal power	50kW/100kW	63kW/126kW	75kW/150kW	100kW/200kW
Max. AC apparent power	55kVA/100kVA	69.3kVA/126kVA	82.5kVA/150kVA	110kVA/200kVA
Nominal AC voltage/range	380/400/415V,-15%~+10%			
Nominal AC grid frequency/range	50/60Hz,45~55Hz/55~65Hz			
Max. input current	83.3A/151.5A	105A/190.9A	125A/227.3A	166.7A/303A
Battery Data (DC)				
Continuous charging and discharging power	56.7kW	71.4kW	85.1kW	113.5kW
Battery voltage range	600~1000V (for 3P3W) / 680~1000V (for 3P4W)			
Recommended battery voltage	768V			
Max charging and discharging current	83.3A	105A	125A	167A
BMS communication	RS485/CAN			
Backup Power (AC)*2				
Rated AC output power	50kW	63kW	75kW	100kW
Max. AC apparent power	60kVA	75.6kVA	90kVA	120kVA
Rated AC output voltage	220V/230V/240V(L-N),380V/400V/415V(L-L)			
Nominal AC output frequency	50/60 Hz			
Load connection	3P3W+PE/3P4W+PE			
Max. output current	90.9A	114.5A	136.4A	181.8A
THDv	<3% (Linear load)			
Load unbalance	100% three-phase unbalanced			
Overload capacity	≤110%: Continues; 110%~120%: <10min; >120%: 200ms			
On/off grid transfer time	≤20ms			
Efficiency				
Max. efficiency	98.2%			
Protection Devices				
PV reverse polarity protection	Yes			
Battery reverse protection	Yes			
AC/DC surge protection	Type II			
Insulation resistance monitoring	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
Residual-current monitoring unit	Yes			
AC short-circuit protection	Yes			
Strings monitoring	Yes			
Anti-islanding protection	Yes			
PID protection	Yes			
AFCI function	Opt			
General				
Dimensions (W/H/D)	820/1350/510mm			
Weight	153kg	153kg	160kg	160kg
Operating temperature range	-30 °C~60 °C (> 50°C, derating)			
Relative humidity	0~100%			
Altitude	4000m			
Topology	Transformerless			
Cooling	Smart air cooling			
IP degree	IP66			
Display	OLED+LED/WiFi+APP			
Interfaces: RS485/CAN/USB	Yes			
Interfaces: WIFI/LAN	Opt			
Warranty (5/10 years)	Yes/Opt			
EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99:2020, EN 50549-1, VDE 4105, NRS 097-2-1				

*1 The maximum open circuit voltage of PV string must be lower than the maximum input voltage of the battery system connected to the inverter.

*2 The parameter of backup power is only available for WIT 50-100K-HU model.

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