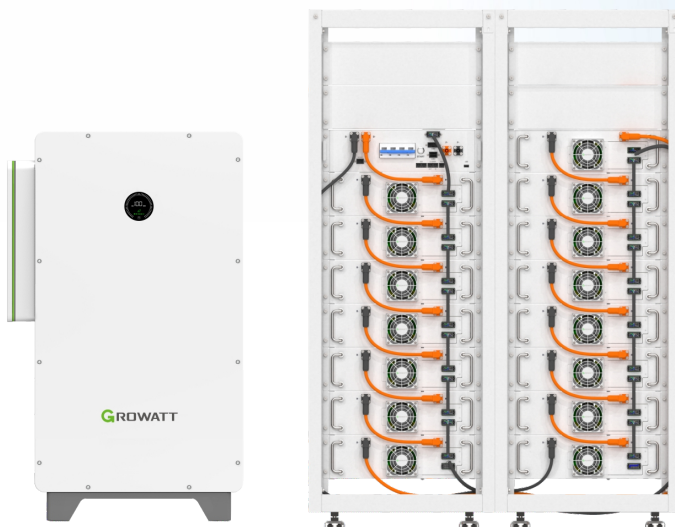


Distributed Hybrid Energy System

(50-100kW/75-300kWh)

- Flexible capacity options, 50-100kW/75-300kWh
- Multiple battery racks expansion supported for single system
- Easy installation and maintenance
- Suitable for multiple C&I application scenarios
- Support UPS function
- Strong power grid adaptability



Preliminary Version

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

GROWATT

en.growatt.com

Datasheet	WIT 50K-HU	WIT 63K-HU	WIT 75K-HU	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) (>850V derating)	
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			≤10ms	
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.

* SHENZHEN GROWATT NEW ENERGY CO.,LTD All rights reserved. All specifications are subject to change without notice.

SHENZHEN GROWATT NEW ENERGY CO.,LTD.

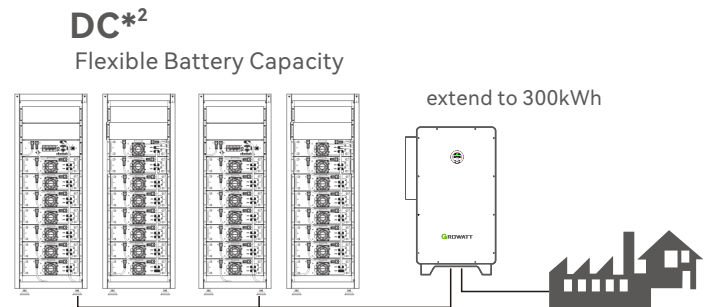
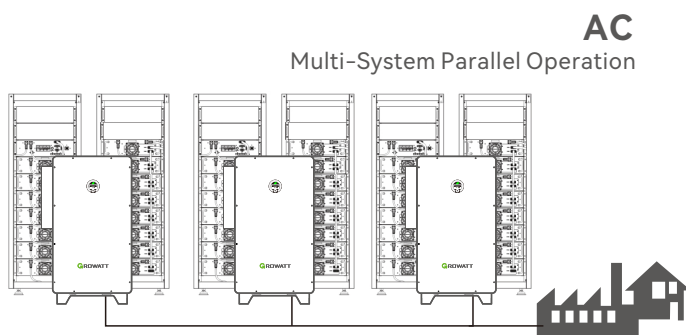
A: 4-13/F, Building A, Sino-German(Europe)Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China

T: + 86 755 2747 1900

F: + 86 755 2749 1460

E: info@ginverter.com

Datasheet	AXE 75.0H-1HR-E1
Control module	AXE 1000100-C1
Number of control module	1
Battery module	AXE 5.0H-E1 EU
Battery module energy	5kWh
Number of modules in series	15
Energy capacity	75kWh
Usable capacity	67.5kWh
Rated output power	75kW
Max. output power* ¹	75kW
Dimension (W/H/D)	570/1560/660mm (per rack)
Weight	≤0.80t
Nominal voltage	768V
Operating voltage range	696~864V
Nominal capacity	100Ah(@25°C)
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)
Ingress protection	IP20
Installation	Floor stand
Operating temperature	-10~50°C
Relative humidity	5% ~ 95%
Cooling	Air-Cooling
Warranty* ²	5 years
Noise emission	<65dB
Maximum elevation	≤2000m
Compatible PCS	WIT 50-100K-HU
Control Module	AXE 1000100-C1
Dimension(W/H/D)	482/131/580mm
Weight	≤15kg
Communication port	CAN/RS485/USB
Operating voltage range	120V-1000Vdc
Maximum current	100A
Monitoring parameters	SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature
Battery Module	AXE 5.0H-E1
Nominal energy	5kWh
Nominal voltage	51.2V
Pack operating voltage/range	46.4~56.8V
Rated current	100A
Peak current	150A@30s, 25°C
Battery module dimension (W/H/D)	482/131/580mm
Battery module weight	≤47kg
UN 38.3, IEC 62619, IEC 62477, CE, RoHS	



* 1 Depend on the max. battery charge/discharge power of the inverter.

* 2 Detailed warranty terms should be negotiated with Growatt in the warranty agreement.

* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

SHENZHEN GROWATT NEW ENERGY CO.,LTD All rights reserved. All specifications are subject to change without notice.

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