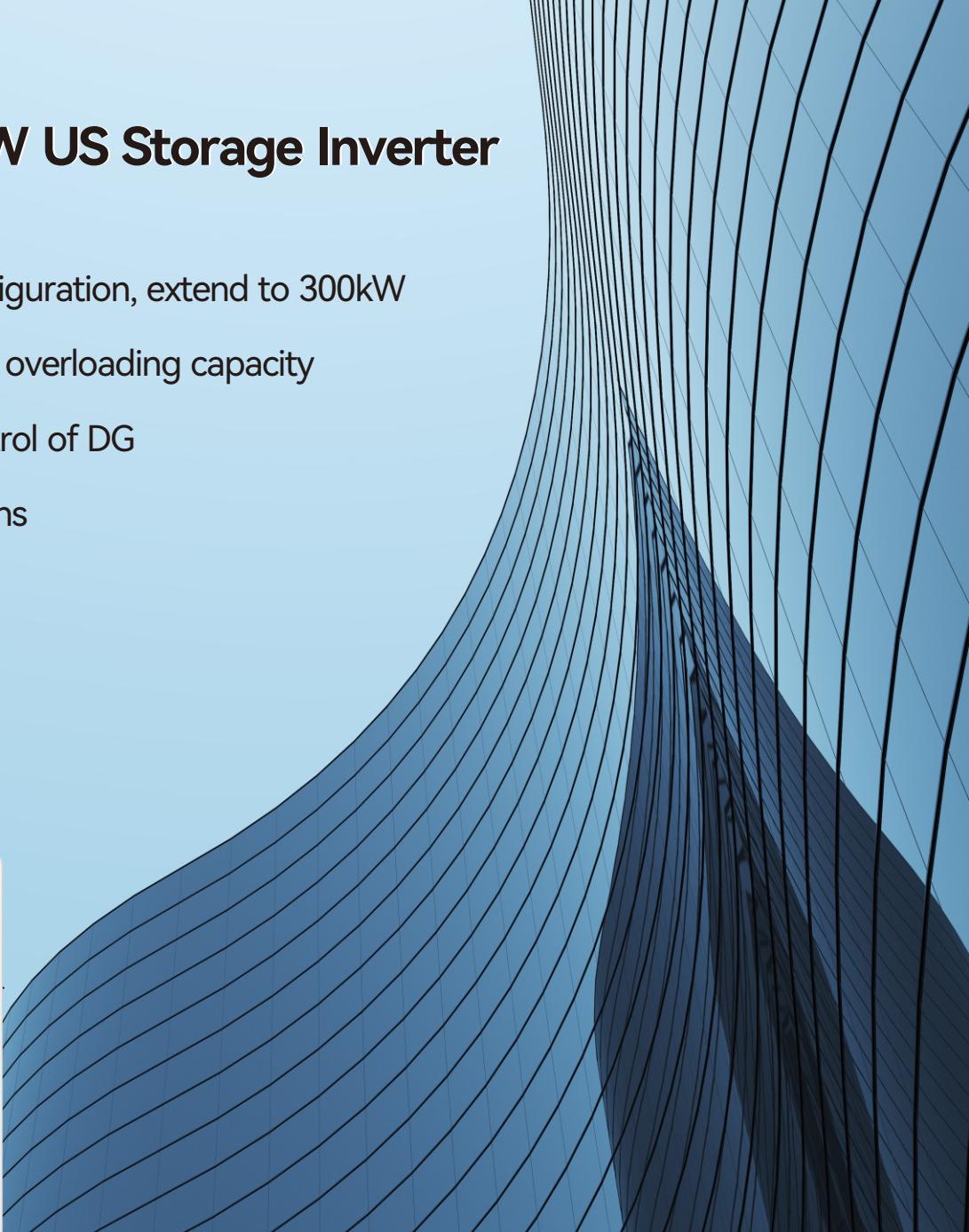


# WIT 50-100kW US Storage Inverter

WIT 50-100K-A-US

- Scalable system configuration, extend to 300kW
- 110% continuous AC overloading capacity
- Support remote control of DG
- Grid-support functions



Preliminary Version

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

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Datasheet	WIT 50K-A-US	WIT 63K-A-US	WIT 75K-A-US	WIT 100K-A-US
<b>Output Data (AC)</b>				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Max. single phase power	16.6kW	21kW	25kW	33.3kW
Nominal AC voltage			277/480V	
AC voltage range			-15%~+10%	
AC grid frequency			50/60 Hz	
AC grid frequency range			45-65Hz/55-65Hz	
Max. output current	66.2A	83.4A	99.3A	132.4A
Adjustable power factor			-1...+1	
THDi			<3% (@100% load)	
AC grid connection type* <sup>1</sup>			3P3W+PE/3P4W+PE	
<b>Input Data(AC)</b>				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Nominal AC voltage/range			277/480V, -15%~+10%	
Nominal AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz	
Max. input current	66.2A	83.4A	99.3A	132.4A
Adjustable power factor			-1...+1	
THDi			<3% (Linear load)	
AC grid connection type			3P3W+PE/3P4W+PE	
<b>Battery Data (DC)</b>				
Continuous charging and discharging power	56.7kW	71.4kW	85.1kW	113.5kW
Battery voltage range* <sup>2</sup>		750-1000V for 3P3W / 820-1000V for 3P4W		
Max charging and discharging current	75.6A	95.2A	113.5A	151.3A
BMS communication		RS485/CAN		
Types of battery		Li-ion		
<b>Efficiency</b>				
Max. battery charge/discharge efficiency		98.2%		
<b>Protection Devices</b>				
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		
Anti-islanding protection		Yes		
<b>General</b>				
Dimensions (W/H/D)		33.5/53.1/20.1inch (850/1350/510mm)		
Weight		308.6 lbs (140kg)		
Operating temperature range		-22°F~+140°F, >122°F derating		
Relative humidity		0-100%		
Altitude		≤13123ft(4000m)		
Topology		Transformerless		
Cooling		Smart air cooling		
Enclosure		IP66/NEMA 4X		
Display		OLED+LED/WIFI+APP		
Interfaces: RS485/CAN		Yes		
Interfaces: WIFI/4G/LAN		Opt		
Warranty (5/10 years)		Yes/Opt		

UL1741:2021, UL1741 SA/SB:2020, IEEE1547:2018, IEEE1547.1:2020, HECO Rule14, E-5000, CSIP, SA17-SA18, UL1998:2018, CEC, FCC Part 15, CSA C22.2.107.1

\*1 For 3P4W connection type, the inverter is only compatible with APX commercial battery.

\*2 Derating may occur above 900V. For safe operation above this range, please contact Growatt for guidance.

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