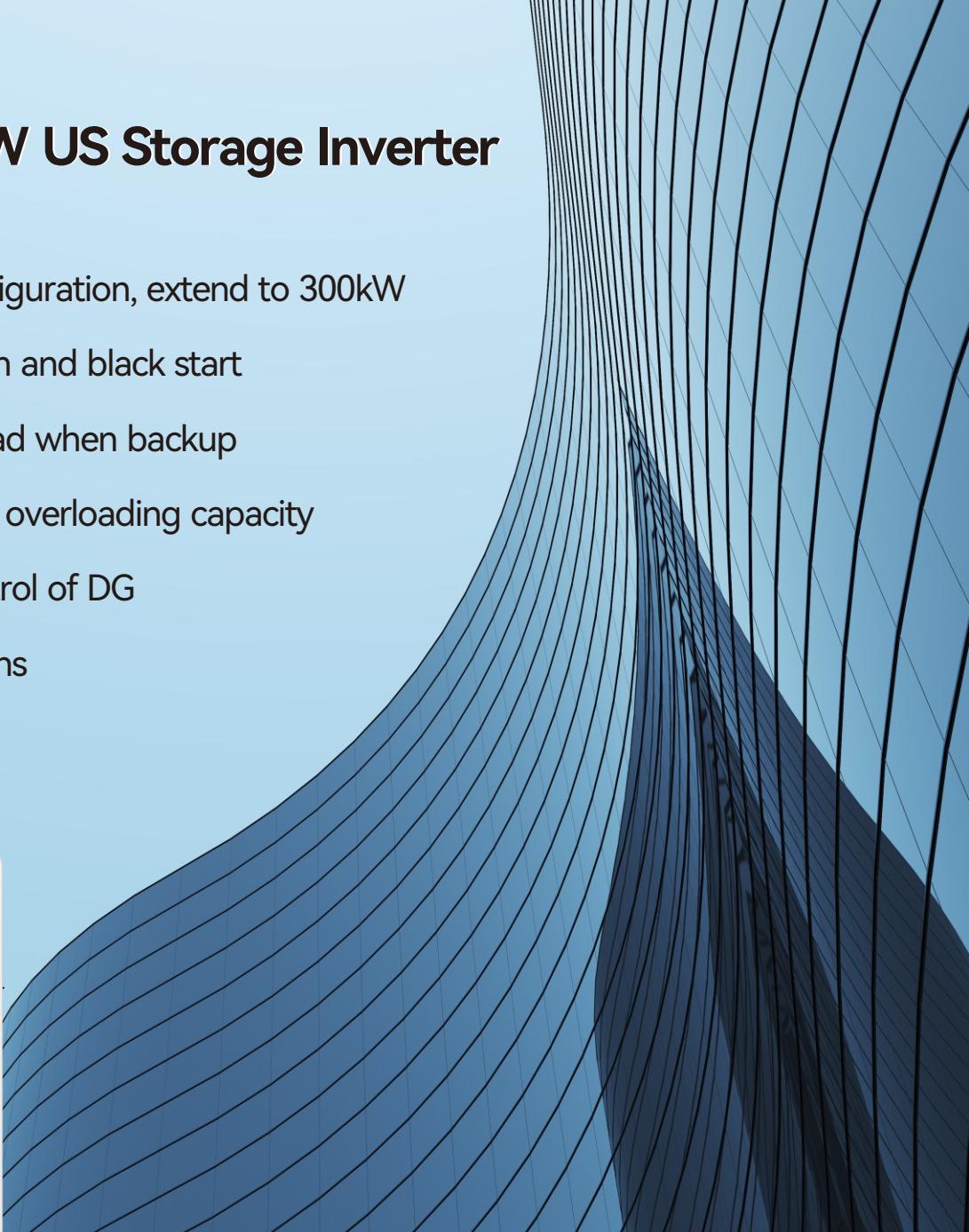


WIT 50-100kW US Storage Inverter

WIT 50-100K-AU-US

- 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
- Grid-support functions



Preliminary Version

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

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Datasheet	WIT 50K-AU-US	WIT 63K-AU-US	WIT 75K-AU-US	WIT 100K-AU-US
Output Data (AC)				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Nominal AC voltage		277/480V		
AC voltage range		-15%~+10%		
AC grid frequency		50/60Hz		
AC grid frequency range		45-55Hz/55-65Hz		
Max. output current	66.2A	83.4A	99.3A	132.4A
Adjustable power factor		-1...+1		
THD _v		<3% (@100% load)		
AC grid connection type ^{*1}		3P3W+PE/3P4W+PE		
Input Data(AC)				
AC nominal power	100kW	126kW	150kW	200kW
Max. AC apparent power	100kVA	126kVA	150kVA	200kVA
Nominal AC voltage/range		277/480V, -15%~+10%		
Nominal AC grid frequency/range		50/60Hz, 45-55Hz/55-65Hz		
Max. input current	120.3A	151.6A	180.5A	240.7A
Adjustable power factor		-1...+1		
AC grid connection type		3P3W+PE/3P4W+PE		
Battery Data (DC)				
Continuous charging and discharging power	56.7kW	71.4kW	85.1kW	113.5kW
Battery voltage range ^{*2}		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		
Backup Power (AC)				
Rated AC output power	50kW	63kW	75kW	100kW
Max. AC apparent power	60kVA	75.6kVA	90kVA	120kVA
Max. single phase power	16.6kW	21kW	25kW	33.3kW
Rated AC output voltage		277V(L-N) / 480V(L-L)		
Nominal AC output frequency		50/60Hz		
Load connection ^{*1}		3P3W+PE/3P4W+PE		
Max. output current	72.2A	91A	108.3A	144.4A
THD _v		<3% (Linear load)		
Load unbalance		100% three-phase unbalanced		
Overload capacity		≤110%: Continues; 110%~120%: <10min; >120%: 200ms		
On/off grid transfer time		≤16.6ms		
Efficiency				
Max. battery charge/discharge efficiency		98.2%		
Protection Devices				
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		
General				
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.