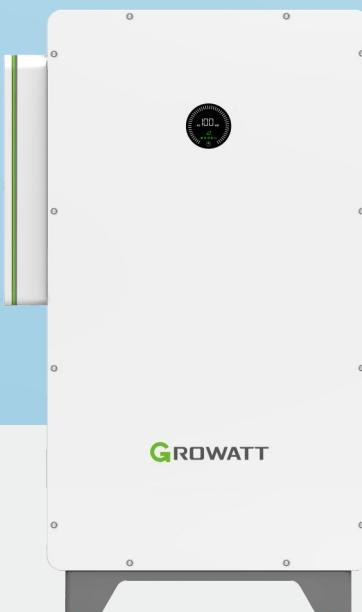


# WIT 28-55kW Storage Inverter

WIT 28-55K-AU-US L2

- Scalable system configuration, extend to 165kW
- 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

**GROWATT**

Datasheet	WIT 28K-AU-US L2	WIT 35K-AU-US L2	WIT 40K-AU-US L2	WIT 55K-AU-US L2
<b>Output Data (AC)</b>				
AC nominal power	28kW	35kW	40kW	55kW
Max. AC apparent power	30.8kVA	38.5kVA	44kVA	60.5kVA
Nominal AC voltage		208V/220V		
AC voltage range		-15%~10%		
AC grid frequency/range		50/60Hz, 45-55Hz/55-65Hz		
Max. output current	85.6A@208V 80.8A@220V	106.9A@208V 101A@220V	122.2A@208V 115.5A@220V	168.1A@208V 158.8A@220V
Adjustable power factor		-1...+1		
THDi		<3%		
AC grid connection type		3P3W+PE/3P4W+PE		
<b>Input Data (AC)</b>				
AC nominal power	56kW	70kW	80kW	110kW
Max. AC apparent power	56kVA	70kVA	80kVA	110kVA
Nominal AC voltage/range		208V/220V, -15%~10%		
Nominal AC grid frequency/range		50/60Hz, 45-55Hz/55-65Hz		
Nominal input current	155.6A@208V 147A@220V	194.4A@208V 183.7A@220V	222.2A@208V 210A@220V	305.6A@208V 288.7A@220V
Max. input current	55.6A@208V 147A@220V	194.4A@208V 183.7A@220V	222.2A@208V 210A@220V	305.6A@208V 288.7A@220V
<b>Backup Power (AC power)</b>				
AC nominal output power	28kW	35kW	40kW	55kW
Max. AC apparent power	33.6kVA	42kVA	48kVA	66kVA
Max. single phase power	9.3kW	11.6kW	13.3kW	18.3kW
Nominal AC voltage		120V/127V(L-N), 208V/220V(L-L)		
Nominal AC frequency		50/60Hz		
Max. output current	93.3A@120V 88.2A@127V	116.7A@120V 110A@127V	133.3A@120V 126A@127V	183.3A@120V 173.2A@127V
Overload capability		≤110%: Continues; 110%~120%: 10min; >120%: 200ms		
Load unbalance		100%		
THDv		<3%		
On/off grid transfer time		≤16.6ms		
<b>Battery Data (DC)</b>				
Battery voltage range		380V~650V		
Recommended battery voltage		512V		
Max. charging / discharging current	79A	99A	113A	156A
Continuous charging / discharging power	31.7kW	39.7kW	45.3kW	62.3kW
BMS communication		RS485/CAN		
Types of battery		Lithium		
<b>Efficiency</b>				
Max. 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		140kg/308.6lbs		
Operating temperature range		-22°F~+140°F, >122°F derating		
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, IEC62600-4-2018, CSA C22.2 No.107.1

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