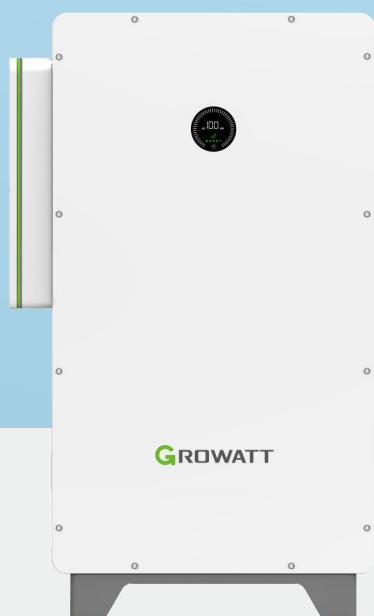


WIT 28-55kW Storage Inverter

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
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Datasheet	WIT 28K-AU-US L2	WIT 35K-AU-US L2	WIT 40K-AU-US L2	WIT 55K-AU-US L2
Output Data (AC)				
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			
Input Data (AC)				
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
Backup Power (AC power)				
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			
Battery Data (DC)				
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			
Efficiency				
Max. 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	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, HECO Rule14, E-5000, CSIP, SA17-SA18, UL1998:2018, CEC, FCC Part 15, CSA C22.2.107.1				

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