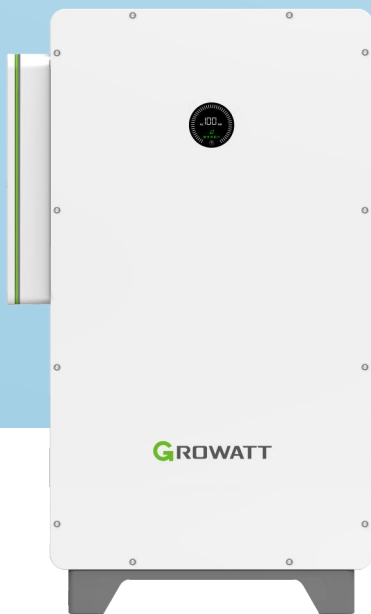


WIT 28-55kW Hybrid Inverter

WIT 28-55K-H-US L2

- Scalable system configuration, extend to 165kW
- 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-H-US L2	WIT 35K-H-US L2	WIT 40K-H-US L2	WIT 55K-H-US L2
Input Data (PV)				
Max. recommended PV power (for module STC)	54kW	75.6kW	86.4kW	108kW
Start voltage	195V			
Max. open circuit voltage of PV*1	630V			
MPPT nominal voltage/range	360V, 180V~550V			
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	5	7	8	10
Output Data (AC)				
AC nominal power/max. AC apparent power	28kW/30.8kVA	35kW/38.5kVA	40kW/44kVA	55kW/60.5kVA
Max. single phase power	9.3kW	11.6kW	13.3kW	18.3kW
Nominal AC voltage/range	208V/220V, -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% (@100% load)			
AC grid connection type	3P3W+PE/3P4W+PE			
Input Data (AC)				
AC nominal power	28kW	35kW	40kW	55kW
Max. AC apparent power	30.8kVA	38.5kVA	44kVA	60.5kVA
Nominal AC voltage/range	208V/220V, -15%~10%			
Nominal AC grid frequency/range	50/60Hz, 45~55Hz/55~65Hz			
Nominal input current	77.8A@208V 73.5A@220V	97.2A@208V 91.9A@220V	111.1A@208V 105A@220V	152.8A@208V 144.4A@220V
Max. input current	85.6A@208V 80.8A@220V	106.9A@208V 101A@220V	122.2A@208V 115.5A@220V	168.1A@208V 158.8A@220V
Battery Data (DC)				
Battery voltage range	380V~650V, recommended @ 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				
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			
String monitoring	Yes			
Anti-islanding protection	Yes			
PID protection	Yes			
AFCI function	Opt			
General				
Dimensions (W/H/D)	33.5/53.1/20.1inch (850/1350/510mm)			
Weight	153kg/337.3lbs	160kg/352.7lbs		
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				

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 The maximum open circuit voltage of PV string must be lower than the maximum input voltage of the battery system connected to the inverter.

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