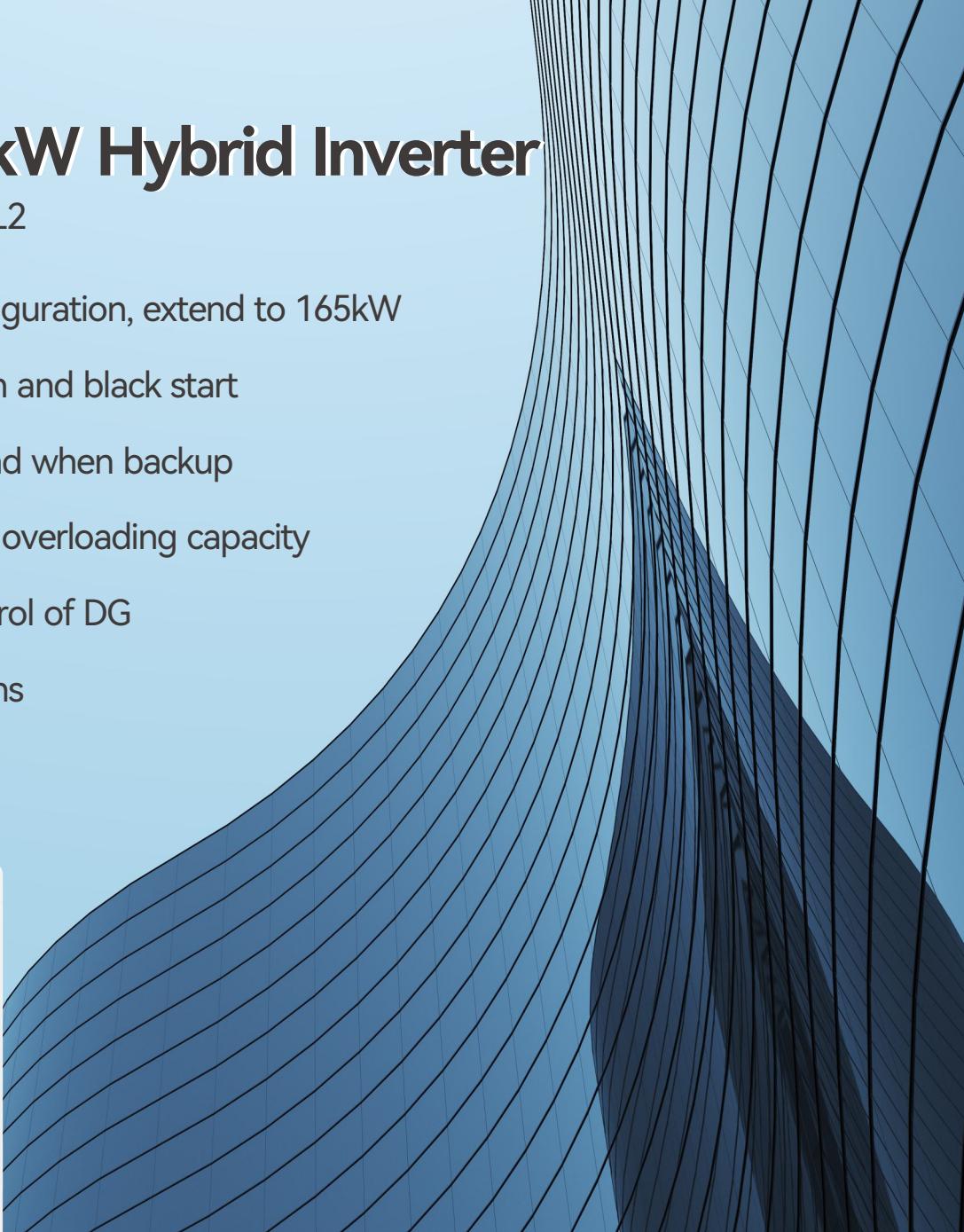


WIT 28-55kW Hybrid Inverter

WIT 28-55K-HU-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



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Datasheet	WIT 28K-HU-US L2	WIT 35K-HU-US L2	WIT 40K-HU-US L2	WIT 55K-HU-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
Nominal AC voltage/range		208V/220V, -15%~10%		
AC grid frequency/range		60Hz, 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	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	155.6A@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 power/Max. AC apparent power	28kW/33.6kVA	35kW/42kVA	40kW/48kVA	55kW/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@208V 88.2A@220V	116.7A@208V 110A@220V	133.3A@208V 126A@220V	183.3A@208V 173.2A@220V
Overload capability		≤110%: Continues; 110%~120%: <10min; >120%: 200ms		
Load unbalance		100%		
THDv		<3% (Linear load)		
On/off grid transfer time		≤16.6ms		
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

*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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