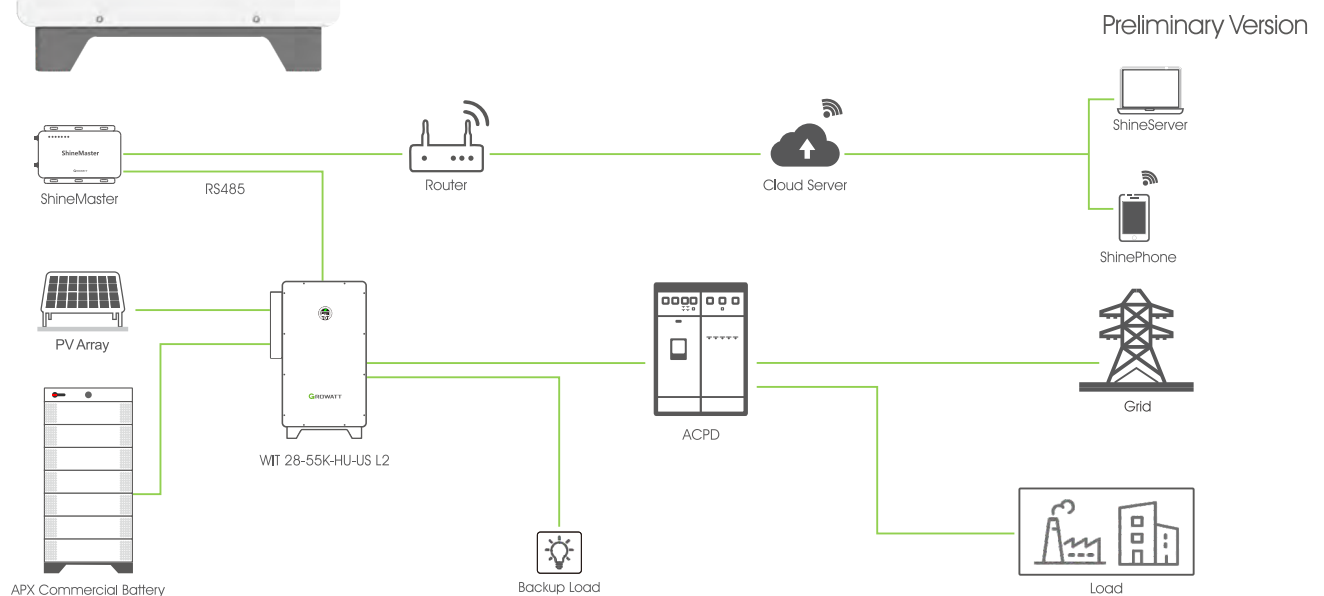


WIT 28-55kW Commercial Hybrid Inverter

(WIT 28-55K-H-US L2, 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



* WIT 28-55K-H-US L2 has one AC port for grid-tied application or off-grid application.

* WIT 28-55K-HU-US L2 has two AC ports, one is for grid connection while the other is for emergency power backup, therefore it supports on/off grid transfer function.

Datasheet	WIT 28K-H-US L2 WIT 28K-HU-US L2	WIT 35K-H-US L2 WIT 35K-HU-US L2	WIT 40K-H-US L2 WIT 40K-HU-US L2	WIT 55K-H-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		
Nominal voltage		360V		
Max. input voltage		800V		
MPPT voltage range		180V-600V		
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	28kW	35kW	40kW	55kW
Max. AC apparent power	30,8kVA	38,5kVA	44kVA	60,5kVA
Nominal AC voltage/range *		208/220V		
AC voltage range*		-15%~10%		
AC grid frequency/range		45-55Hz/55-65Hz		
Max. output current	85,6A@208V 80,8A@220V	106,9A@208V 101@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		
Stand alone (AC power)*				
AC nominal output power	28kW	35kW	40kW	55kW
Max. AC apparent power	33,6kVA	42kVA	48kVA	66kVA
Nominal AC voltage		208V/220V		
Nominal AC frequency		50/60HZ		
Max. output current	93,3A	116,7A	133,3A	183,3A
Overload Capability		≤110%: Continues; 110%~120%: 10min; >120%: 200ms		
Load unbalance		100%		
THDv		<3%		
On/off grid transfer time		20ms		
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		
Efficiency				
Max. efficiency		98,00%		
Protection devices				
DC 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)		820/1350/510mm		
Weight	133kg	133kg	140kg	140kg
Operating temperature range		-30°C~60°C (>50°C, derating)		
Altitude		4000m		
Topology		Transformerless		
Cooling		Smart air cooling		
IP degree		IP66		
Display		OLED+LED/WIFI+APP		
Interfaces:RS485/CAN/USB		Yes		
Interfaces:RS485/4G/LAN-X		Opt		
Warranty: 5 / 10 years		Yes/Opt		
UL1741:2021,UL 1741 SA/SB:2020,IEEE1547:2018,IEEE1547,1:2020,HECO Rule 14,E-5000,CSFSA17-SA18,UL1998:2018,CEC,FCC Part 15				

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