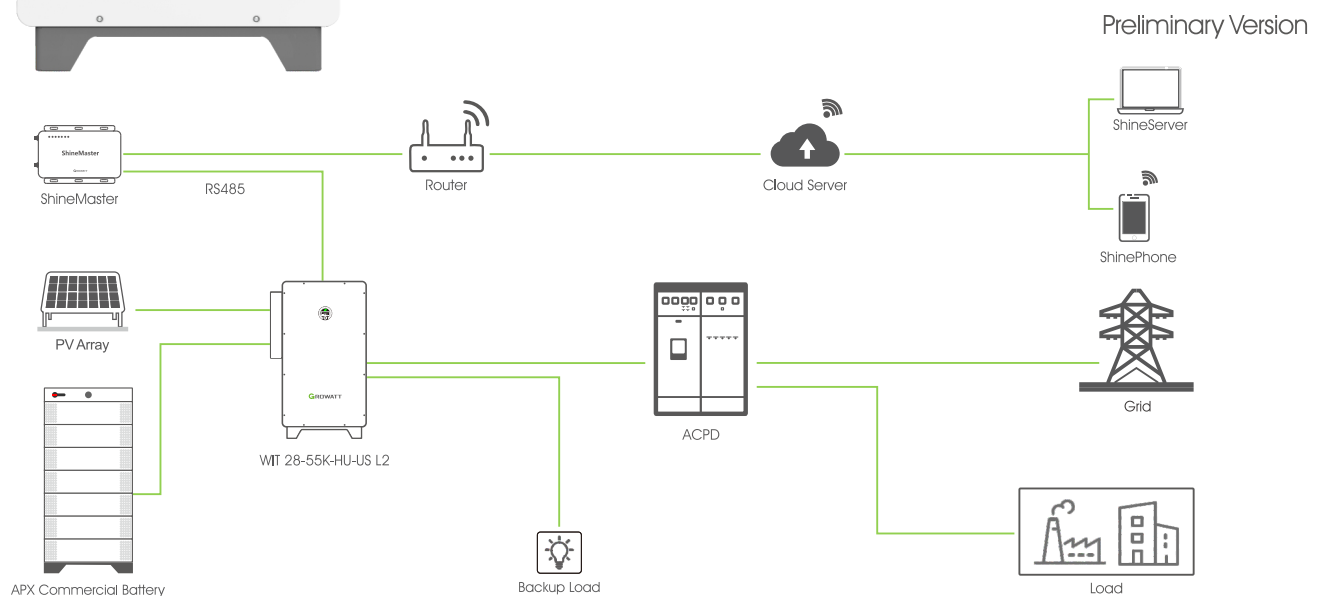
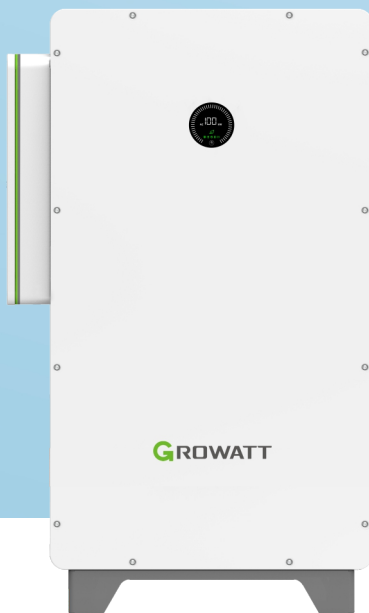


WIT 28-55kW Commercial Hybrid Inverter

(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,CSPSA17-SA18,UL1998:2018,CEC,FCC Part 15

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