



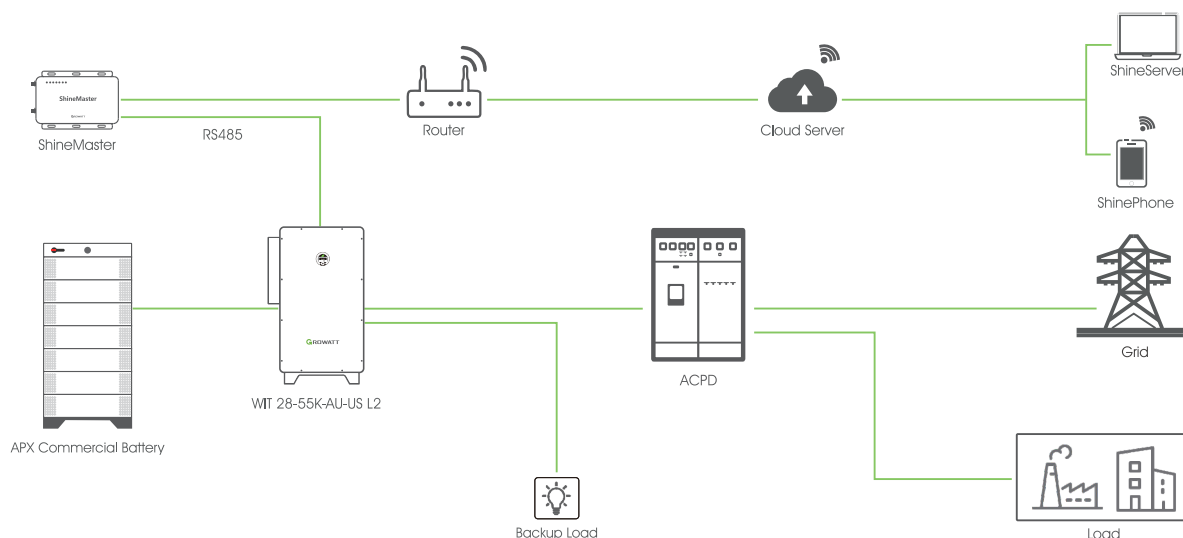
WIT 28-55kW Commercial AC-Coupled Inverter

WIT-28-55K-A-US L2, 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



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

* WIT 28-55K-AU-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-A-US L2 WIT 28K-AU-US L2	WIT 35K-A-US L2 WIT 35K-AU-US L2	WIT 40K-A-US L2 WIT 40K-AU-US L2	WIT 55K-A-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/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. ouput 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				
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)	820/1350/510mm			
Weight	120kg			
Operating temperature range	-30°C~60°C (>50°C, derating)			
Alitude	4000m			
Topology	Transformerless			
Cooling	Smart air cooling			
IP degree	IP66/NEMA 4X			
Display	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,CSIPA17-SA18,UL1998:2018,CEC,FCC Part 15				

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