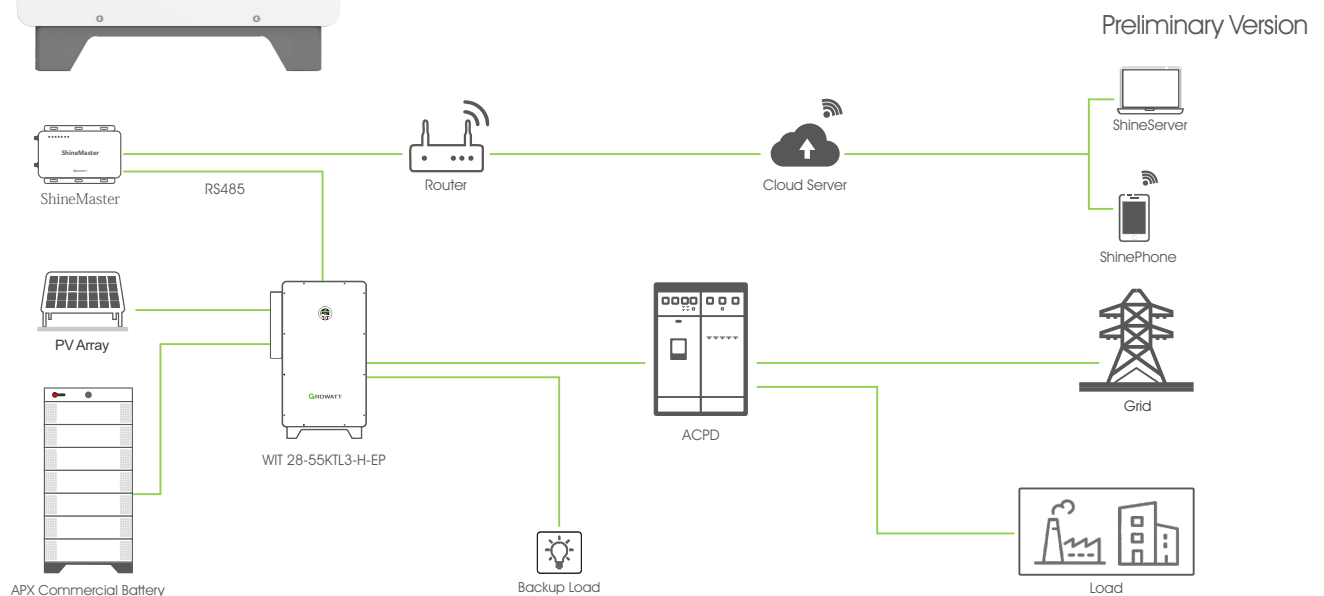
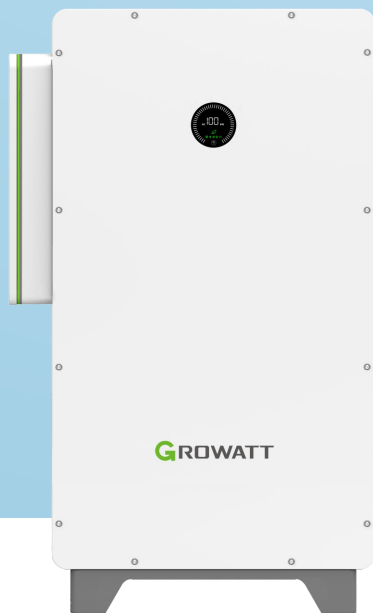


WIT 28-55kW Commercial Hybrid Inverter

(WIT 28-55KTL3-H XL, WIT 28-55KTL3-H-EP XL)

- Scalable system configuration, extend to 165kW
- Support EPS function and black start
- 100% unbalanced load when backup
- 110% continuous AC overloading capacity
- Support remote control of DG
- Grid-support functions



* WIT 28-55KTL3-H has one AC port for grid-tied application or off-grid application.

* WIT 28-55KTL3-H-EP 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 28KTL3-H XL WIT 28KTL3-H-EP XL	WIT 35KTL3-H XL WIT 35KTL3-H-EP XL	WIT 40KTL3-H XL WIT 40KTL3-H-EP XL	WIT 55KTL3-H XL WIT 55KTL3-H-EP XL
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%			
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 data				
Dimensions (W / H / D)	820/1350/560mm			
Weight	143kg	143kg	150kg	150kg
Operating temperature range	-30°C~60°C			
Noise emission (typical)	≤70dB			
Altitude	4000m			
Topology	Transformerless			
Cooling	Smart air cooling			
Protection degree	IP66			
Relative humidity	0~100%			
DC connection	MC4			
AC connection	Cable gland +OT terminal			
Battery connection	Quick connection plug			
Display	LED/WIFI+APP			
RS232/RS485/CAN/USB	RS485/CAN/USB			
RF/WIFI/4G	Optional			
Warranty: 5 / 10 years	Yes/Opt			

UL1741:2021,UL 1741 SA/SB:2020,IEEE1547:2018,IEEE1547.1:2020,HECO Rule 14,E-5000,CSIPSA17-SA18,UL1998:2018,CEC,FCC Part 15

UL1741:2021,UL 1741 SA/8B:2020,IEEE1547:2018,IEEE1547.1:2020,HECO Rule 14,E-5000,CSIPSA17-SA18,UL1998:2018,CEC,FCC Part 15

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