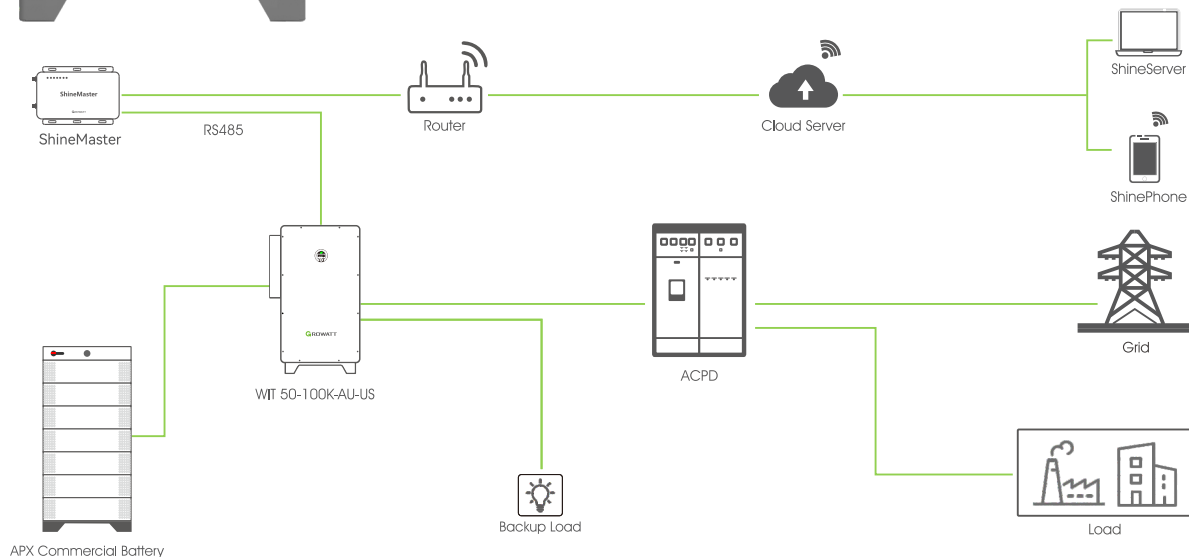
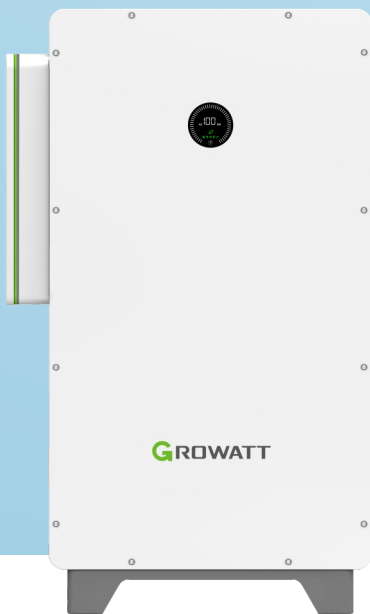


# WIT 50-100kW US Commercial AC-coupled Inverter

WIT 50-100K-A-US, WIT 50-100K-AU-US

- Scalable system configuration, extend to 300kW
- 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 50-100K-A-US has one AC port for grid-tied application or off-grid application.

\* WIT 50-100K-AU-US 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 50K-A-US WIT 50K-AU-US	WIT 63K-A-US WIT 63K-AU-US	WIT 75K-A-US WIT 75K-AU-US	WIT 100K-A-US WIT 100K-AU-US
<b>Output data (AC)</b>				
AC nominal power	50000W	63000W	75000W	100000W
Max. AC apparent power	55KVA	69,3KVA	82,5KVA	110KVA
Nominal AC voltage	480V			
AC voltage range	-15%~+10%			
AC grid frequency	50/60 Hz			
AC grid frequency range	45-55Hz/55-65Hz			
Max. output current	66,2A	83,4A	99,3A	132,4A
Adjustable power factor	-1...+1			
THDi	<3%			
AC grid connection type	3P3W+PE			
<b>Battery data (DC)</b>				
Continuous charging and discharging power	56,7KW	71,4KW	85,1KW	113,5KW
Battery voltage range	750-1000V			
Recommended battery voltage	819,2V			
Max charging and discharging current	75,6A	95,2A	113,5A	151,3A
BMS communication	RS485/CAN			
<b>Backup power (AC)*</b>				
Rated AC output power	50KW	63KW	75KW	100KW
Max. AC apparent power	60KVA	75,6KVA	90KVA	120KVA
Rated AC output voltage	480V			
Nominal AC output frequency	50/60 Hz			
Load connection	3P3W+PE			
Max. output current	72,2A	91A	108,3A	144,4A
THDv	<3% (Linear load)			
Load unbalance	100% three-phase unbalanced			
Overload	≤110% : Continues 110%~120% : 10min >120% : 200ms			
On/off grid transfer time	20ms			
<b>Efficiency</b>				
MAX. Battery charge/discharge efficiency	98%			
<b>Protection devices</b>				
Battery reverse protection	Yes			
AC/DC surge protection	Class 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			
<b>General</b>				
Dimensions (W / H / D)	32,3/53,1/20,1inch (820/1350/510mm)			
Weight	264,6 lbs (120kg)			
Operating temperature range	-22°F~+140°F(-30°C~+60°C)>122°F,derating			
Relative humidity	0~100%			
Altitude	13123ft(4000m)			
Topology	Transformerless			
Cooling	Smart air cooling			
IP degree	NEMA4X(IP66)			
Display	OLED+LED/WIFI+APP			
Interfaces: RS485/CAN/USB	Yes			
Interfaces: WIFI/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

\* The parameter of backup power is only available for WIT 50-100K-AU-US model.