

SYN 360-680U-US

- On/off-grid switch time $\leq 20\text{ms}$
- Up to 3 units of WIT series inverters in parallel
- Manual bypass function for maintenance
- Integrated with smart meter for energy management
- Support dry contact and optional DG input



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Datasheet	SYN 450U-US	SYN 680U-US	SYN 360U-US	SYN 540U-US
Input data (Grid)				
AC nominal power	160kW	245kW	300kW	450kW
Max. AC apparent power	160kVA	245kVA	300kVA	450kVA
Nominal AC voltage	208V/220V		480V	
AC voltage range	-15%~10%			
AC Frequency (nominal)	50/60Hz			
AC grid frequency/range	45-65Hz			
Max. input current	444.1A @208V	680A @208V	360,8A @480V	541,3A @480V
On/off-grid switch time	≤20ms			
AC grid connection type	3P3W+PE/3P4W+PE			
Input data (DG)				
AC nominal power	80kW	165kW	150kW	300kW
Max. AC apparent power	88kVA	181,5kVA	165kVA	330kVA
Nominal AC voltage	208V/220V		480V	
AC voltage range	-15%~10%			
AC Frequency (nominal)	50/60Hz			
AC frequency/range	45-65Hz			
Max. input current	244.3A @208V	503.8A @208V	198.5A @480V	397A @480V
Input data (Inverter)				
Compatible Inverter	WIT 28-55KTL3-HU/AU-US L2		WIT 50-100K-HU/AU-US	
No. of inverter inputs	3	3	3	3
AC nominal power	28kW*3	55kW*3	50kW*3	100kW*3
Nominal AC voltage	208V/220V		480V	
AC frequency (nominal)	50/60Hz			
AC frequency/range	45-65Hz			
Max. input current per PCS	85,5A*3 @208V	168,1A*3 @208V	66,2A*3 @480V	132,3A*3 @480V
Output data (Load)				
AC nominal power	80kW	165kW	150kW	300kW
Max. AC apparent power	88kVA	181,5kVA	165kVA	330kVA
Nominal AC voltage	208V/220V		480V	
AC voltage range	-15%~10%			
AC Frequency (nominal)	50/60Hz			
AC grid frequency/range	45-65Hz			
Max. output current	244.3A @208V	503.8A @208V	198.5A @480V	397A @480V
Protection				
Countercurrent protection	Yes			
Emergency stop protection	Yes			
AC surge protection	Type II			
AC short-circuit protection	Yes			
Protection				
Communication	RS485			
Manual control bypass switch	Yes			
Dimensions (W/H/D)	47,2/78,7/31,4 in (1200*2000*800mm)			
Weight	1102lbs (500kg)			
Operating temperature range	-22°F - 140°F (-30°C - 60°C)			
Altitude	13123ft (4000m)			
Cooling	Smart air cooling			
Protection degree	IP54/NEMA 3S			
Relative humidity	0~100%			
WiFi/4G	Optional			
UL869A, UL1741, UL916				

* DG function is optional, Model SYN 360-680U-33-US are equipped with DG function while SYN 360-680U-31-US aren't.