

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



Preliminary Version

P O W E R
- I N G
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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 28-55K-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 inch (1200/2000/800mm)							
Weight	500kg/1102lbs							
Operating temperature range	-22°F - 140°F (-30°C - 60°C)							
Altitude	13123ft (4000m)							
Cooling	Smart air cooling							
Protection degree	IP54/NEMA 3R							
Relative humidity	0~100%							
WiFi/4G	Optional							
UL869A, UL174, UL916								

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

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