

EU SYN 450-680U

- 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	EU SYN 450U	EU SYN 680U
AC Data (Grid)		
AC nominal power	300kW	450kW
Max. AC apparent power	300kVA	450kVA
Nominal AC voltage	380/400/415V	
AC voltage range	-15%~10%	
AC frequency (nominal)	50/60Hz	
AC grid frequency/range	45-65Hz	
Max. input current	455.8A@380V	683.7A@380V
On/off-grid switch time	≤20ms	
AC grid connection type	3P3W+PE/3P4W+PE	
Input Data (DG)		
AC nominal power	150kW	300kW
Max. AC apparent power	165kVA	330kVA
Nominal AC voltage	380/400/415V	
AC frequency (nominal)	50/60Hz	
AC frequency range	45-65Hz	
Max. input current	250.7A@380V	501.38A@380V
Input Data (Inverter)		
Compatible Inverter	WIT 50-100K-HU/AU	
No. of inverter inputs	3	3
AC nominal power	50kW*3	100kW*3
Nominal AC voltage	380/400/415V	
AC frequency (nominal)	50/60Hz	
AC frequency/range	45-65Hz	
Max. input current	83.5A*3@380V	167.1A*3@380V
Output Data (Load)		
AC nominal power	150kW	300kW
Max. AC apparent power	165kVA	330kVA
Nominal AC voltage	380/400/415V	
AC frequency (nominal)	50/60Hz	
AC frequency/range	45-65Hz	
Max. output current	250.7A@380V	501.38A@380V
Protection		
Countercurrent protection	Yes	
Emergency stop protection	Yes	
AC surge protection	Type II	
AC short-circuit protection	Yes	
General Data		
Communication	RS485	
Manual control bypass switch	Yes	
Dimensions (W/H/D)	1200*2000*800mm	
Weight	500kg	
Operating temperature range	-30°C - 60°C	
Altitude	4000m	
Cooling	Smart air cooling	
Protection degree	IP54	
Relative humidity	0~100%	
WiFi/4G	Optional	
Warranty: 5 / 10 years	Yes/Opt.	
IEC/EN62109-1, IEC/EN62109-2		

* DG function is optional. Model EU SYN 450-680U-33 are equipped with DG function while EU SYN 450-680U-31 aren't.