



BLUE SERIES THREE PHASE LV

BluE-12KTL-M1 / BluE-15KTL-M1
/ BluE-20KTL-M1



PV On-Grid String Inverter

☀ Max. PV Voltage up to 800V
Type II DC / AC SPD

📶 Reactive Power Control
WiFi / 4G Plug optional

⚡ DC/AC Ratio up to 2
IP66 Protection

⚙ High Efficiency up to 98.6%
Smaller and Lighter

MODEL	BluE-12KTL-M1	BluE-15KTL-M1	BluE-20KTL-M1
Input(DC)			
Max. DC Voltage	800V	800V	800V
Nominal Voltage	370V	370V	370V
Start Voltage ¹	250V	250V	250V
MPPT Voltage Range	200V-750V	200V-750V	200V-750V
Number of MPPT	2	2	3
Strings Per MPPT	2	2	2
Max. Input Current Per MPPT	30A	30A	30A
Max. Short-circuit Current Per MPPT	40A	40A	40A
Output(AC)			
Nominal AC Output Power	12000W	15000W	20000W
Maximum AC Output Power	13200VA	16500VA	22000VA
Nominal AC Voltage	220 3L+N	220 3L+N	220 3L+N
AC Grid Frequency Range	50Hz/60Hz±5Hz	50Hz/60Hz±5Hz	50Hz/60Hz±5Hz
Maximum Output Current	34.6A	43.3A	57.7A
Power Factor(Φ)	0.8leading-0.8lagging		
THDi	3%		
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
Euro Efficiency	98.3%	98.3%	98.3%
Protection Devices			
DC Switch	Yes		
Output Over Current Protection	Yes		
Anti-islanding Protection	Yes		
DC Reverse Polarity Protection	Yes		
String Fault Detection	Yes		
DC/AC Surge Protection	DC: Type II / AC: Type III / Type II Optional		
Insulation Detection	Yes		
AC Short Circuit Protection	Yes		
General Specifications			
Dimensions W x H x D	380x483x193mm	380x483x223mm	380x483x227mm
Weight	20.7kg	25.5kg	32.5kg
Operating Temperature Range	-25°C~+60°C		
Cooling Type	Fan Cooling		
Max. Operating Altitude	4000m		
Max. Operating Humidity	0-100%(No Condensation)		
AC Output Terminal Type	Connector		
IP Class	IP66		
Topology	Transformer-less		
Communication	RS485/Wifi/4G		
Display	LCD		
Certification & Standard	EN/IEC62109-1/2 ; IEC/EN61000-6-2; IEC/EN61000-6-4; IEC61683; IEC60068; IEC60529; IEC62116; IEC61727;		

* Specifications subject to change without prior notice.
1. Minimum voltage for inverter to start power output.