

# Three-Phase Solar Inverter

## BG6KTR BG8KTR BG10KTR BG12KTR BG15KTR

### Product Description

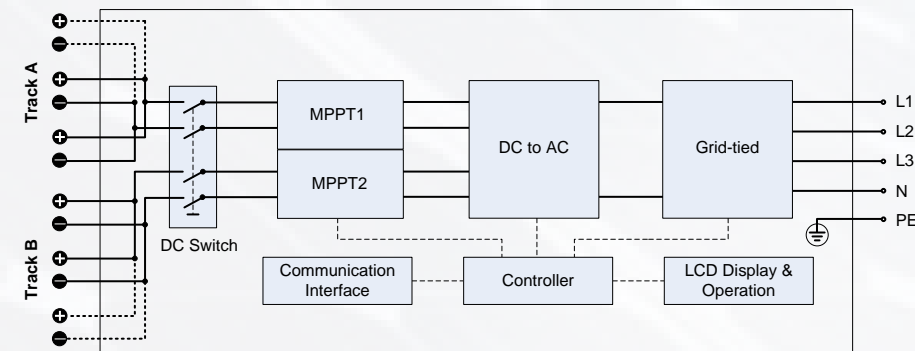
6kW ~ 15kW three-phase inverters with advanced three-level technology, compact design, support 2 high efficiency MPPT tracking inputs, suitable for small or medium-sized grid-tied PV systems, such as commercial and industrial areas plant roof systems, etc..



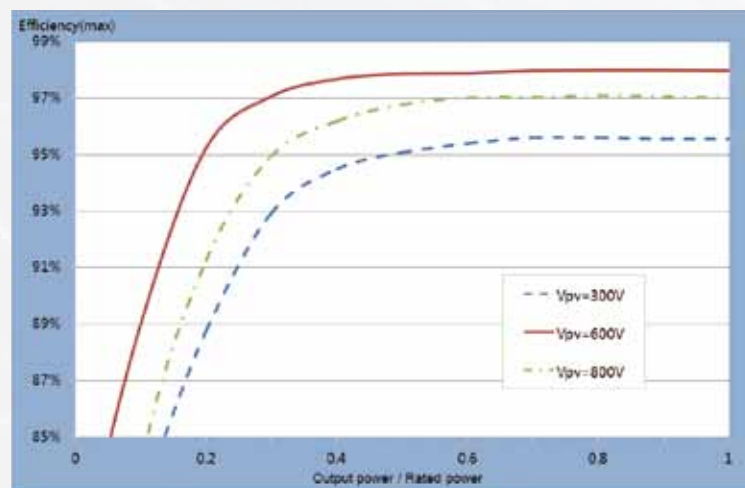
### Features

- Optimized electric control technology, over 98% efficiency;
- Advanced dual-MPPT algorithms, max tracking efficiency up to 99.9%;
- Large LCD interface, easy to view and configure;
- Build-in lock with high accuracy: records real-time information accurately; keeps running for 14 days or more once system loses power;
- Perfect fault diagnosis, protection, records, inquiries and other functions, easy troubleshooting;
- System-level thermal simulation technologies, higher reliability and longer lifetime;
- IP65 protection and Anti-theft design, suitable for any kind of outdoor environments;
- Strong networking, flexible to support RS485, WiFi, Ethernet and other communication modes.

### Inverter Topology



### Power Efficiency



### Specification

	BG6KTR	BG8KTR	BG10KTR	BG12KTR	BG15KTR
<b>Input (DC)</b>					
Max. DC voltage (V)	1000				
Starting voltage (V)	180				
MPPT operating voltage range (V)	180- 800				
Rated power voltage range (V)	200 - 800	250 - 800	250 - 800	300 - 800	380 - 800
Number of MPPT/ string per MPPT	2/2	2/2	2/3	2/3	2/3
Max. DC power (W)	6400	8400	10400	12500	15600
Max. DC current (A) per MPPT x number of MPPT	16x2	21x2	21x2	21x2	21x2
DC switch	Integrated (Lockable-off)				
<b>Output (AC)</b>					
Rated output power (W)	6000	8000	10000	12000	15000
Max. AC output current (A)	10	13	15	20	24
AC voltage rang	320~460Vac				
	According to VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC				
Grid frequency	50Hz(47~51.5Hz) / 60Hz(57~61.5Hz)				
Power factor	-0.9~+0.9 (Adjustable)				
THD	< 3% (at rated power)				
AC connection	Three-phase (L1, L2, L3, N, PE)				
<b>System</b>					
Cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling
Maximum efficiency	97.50%	97.80%	98.00%	98.00%	98.00%
European efficiency	97.00%	97.00%	97.50%	97.50%	97.50%
MPPT efficiency	99.9%				
Protection degree	IP65				
Power consumption at night	<1W				
Isolation mode	Transformerless				
Running temperature	-25°C ~ +60°C, derate after 45°C				
Relative humidity	0~95%, no condensation				
Protection	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.				
<b>Display and Communication</b>					
Display	3.5inches LCD display, support backlit display				
System language	English, Chinese				
communication mode	RS485(Standard) WiFi, Ethernet(Optional)				
<b>Mechanical Parameters</b>					
Dimension (H x W x D mm)	656x494x206				
Weight (KG)	≤35.5				
Installation	Wall mounting				
<b>Others</b>					
DC terminal	SUNCLIX water-proof terminal				
Certifications	TÜV, CE, VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12; IEC 62109-1:2010				