

COMMERCIAL SOLUTION

Three Phase Grid-tied Solar Inverter

BG12KTR/ 15KTR / 17KTR / 20KTR / 25KTR
30KTR / 33KTR / 35KTR / 40KTR-HV / 50KTR-HV



APP/Web Monitor



Modular Fan Design



IP65



Product Liability Insurance

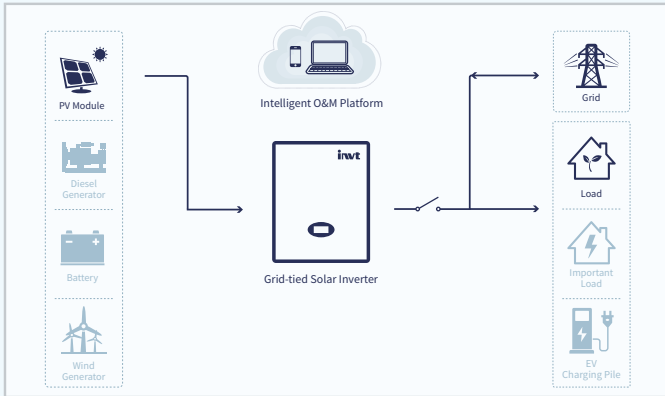


Commercial

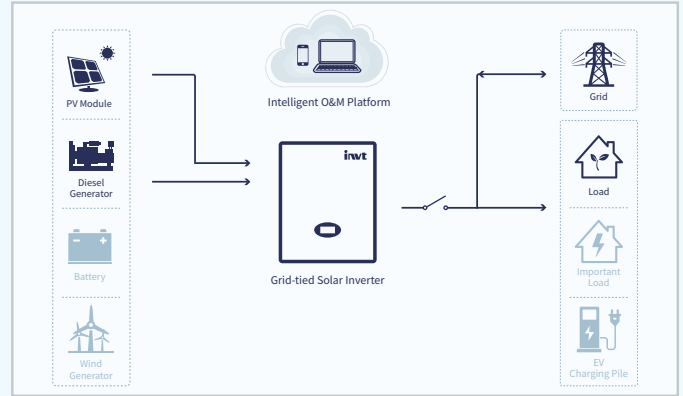


5+5 Warranty

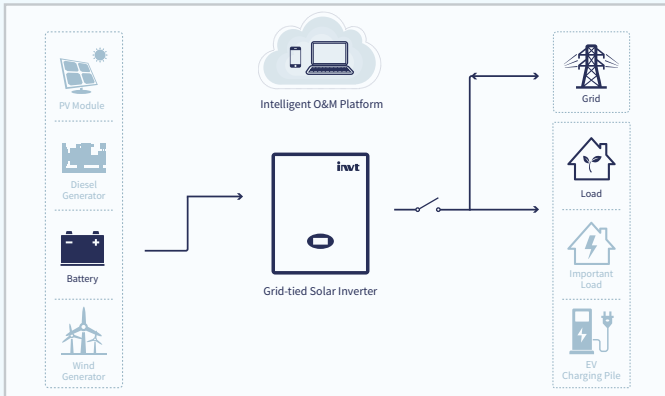
Solution



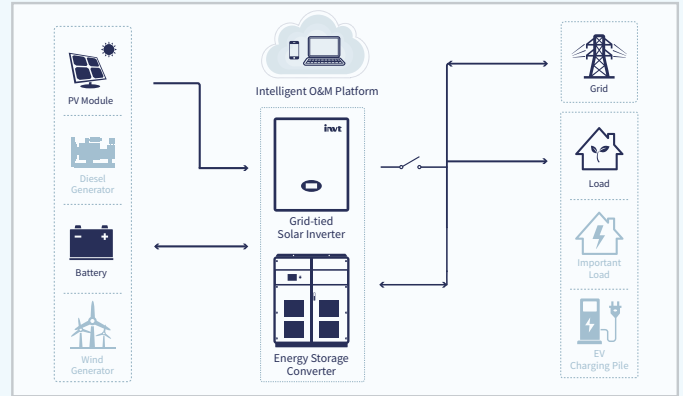
• Typical Grid-tied Solution / Smart Power Output Control System / Aging of Switching Power Supply System



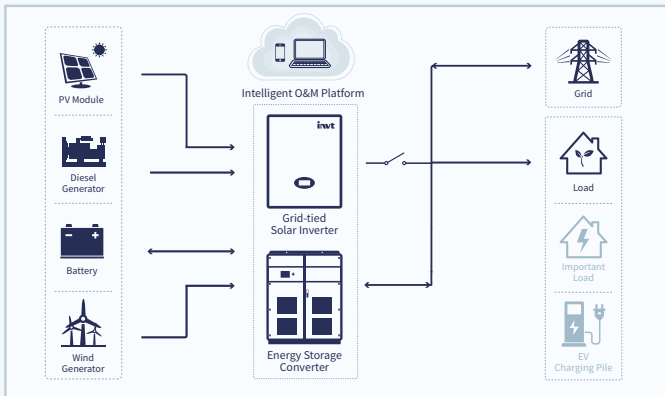
• Grid-tied + Diesel Generators



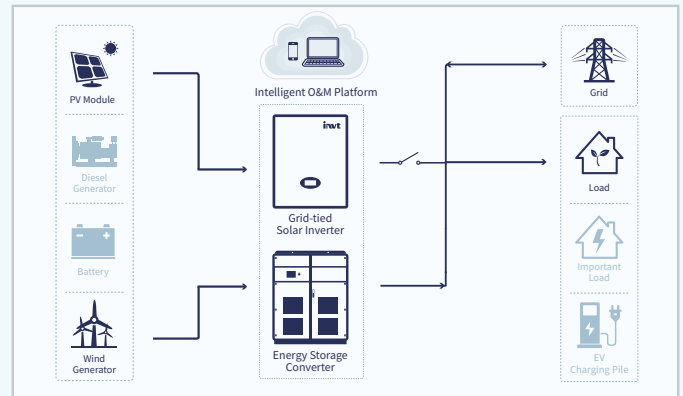
• Battery Discharge Device



• Grid-tied + Energy Storage



• Micro-grid



• Grid-tied + Wind Generators

Configuration table

Inverter	Solar Panel								Mounting Structure	PV Cable	
	60 Cells				72 Cells					4mm ²	6mm ²
	260W	275W	280W	290W	310W	315W	320W	330W			
12KW	44	44	44	44	40	40	40	36	1 set	200m	100m
15KW	60	56	54	52	48	48	48	48			
17KW	66	62	60	60	56	56	54	52			
20KW	80	72	72	72	64	64	64	64			
25KW	100	90	90	90	80	80	80	80			
30KW	120	108	108	108	96	96	96	96			
35KW	140	126	126	126	112	112	112	112			
40KW	160	144	144	144	128	128	128	128			

Product Introduction

Efficient

- Wide input voltage range, adapt to all kinds of solar panels and string configuration.
- Dual MPPTs allow unbalanced input power. One MPPT max. input power is up to 60% of total input
- Adopt combined technology of T-type three level topologies and SVPWM.

Smart

- AC output power is adjustable between 1-100%.
- Grid self-adaptation, no N-line AC design to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration.

Reliable

- IP65 protection level, suitable for various installation environments.
- Advanced film bus capacitors, latest thermal simulation technology for longer lifespan.

Simple

- High power density, small size.
- Modular design, easy to maintain.



Specification

	BG12KTR	BG15KTR	BG17KTR
Input (DC)			
Max. DC input power (W)	14000	18000	19500
Max. DC input voltage (V)	1000		
MPPT range (V)	180- 800		
Output (AC)			
Rated output power (W)	12000	15000	17000
Max. AC output current (A)	19.3	24.1	27.3
Nominal output voltage (V) / Frequency	230/400V;220/380V, 3L+N+PE/3L+PE, 50Hz/60Hz		
Efficiency			
Max. efficiency	98.20%	98.30%	98.30%
Euro-efficiency	97.60%	97.80%	97.80%
Protection			
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.		
General data			
LCD language	English, Chinese, German, Dutch		
Protection degree	IP65		
Operating temperature range	-25°C~+60°C(derate after 45°C)		
Dimension (H x W x D mm)	610x480x204		
Weight (kg)	38		
Grid qualification	DIN VDE 0126-1-1:2013, VDE-AR-N 4105:2011, DIN VDE V 0124-100:2012, IEC 61727(IEC62116), AS/NZS 4777.2:2015, NB/T32004-2013, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005, IEC 61683:1999, C10/11:2012		
Safety certificates / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011		
Factory warranty (years)	5(standard)/10(optional)		

	BG20KTR	BG25KTR	BG30KTR	BG33KTR	BG35KTR	BG40KTR-HV	BG50KTR-HV
Input (DC)							
Max. DC input power (W)	20800	28000	33000	36000	38000	42800	53000
Max. DC input voltage (V)	1000						1100
MPPT range (V)	280-800						200-900
Output (AC)							
Rated output power (W)	20000	25000	30000	33000	35000	40000	50000
Max. AC output current (A)	32	40	48	48	48	48	53
Nominal output voltage (V) / Frequency	230/400V;220/380V, 3L+N+PE/3L+PE, 50Hz/60Hz					277/480V, 3L+N+PE/3L+PE, 50Hz/60Hz	310/540V, 3L+N+PE/3L+PE, 50Hz/60Hz
Efficiency							
Max. efficiency	98.40%	98.40%	98.50%	98.50%	98.50%	98.60%	98.60%
Euro-efficiency	98.00%	98.00%	98.00%	98.10%	98.10%	98.20%	98.20%
Protection							
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.						
General data							
LCD language	English, Chinese, German, Dutch						/
Protection degree	IP65						
Operating temperature range	-25°C~+60°C(derate after 45°C)						
Dimension (H x W x D mm)	660x520x250						645x660x425
Weight (kg)	52						57
Grid qualification	DIN VDE 0126-1-1:2013, VDE-AR-N 4105:2011, DIN VDE V 0124-100:2012, IEC 61727(IEC62116), AS/NZS 4777.2:2015, NB/T32004-2013, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005, IEC 61683:1999, C10/11:2012, G59/3-2:2015, EN 50438:2013, Leader, ZVRT, PEA						
Safety certificate / EMC certificate	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011						
Factory warranty (years)	5(standard)/10(optional)						

Applications



• Rudong, China 1.1MW



• Laiyuan, China 13.8MW



• Denmark 180KW



Sales E-mail: solar@invt.com.cn Service E-mail: solar-service@invt.com.cn Website: www.invt-solar.com