



Three Phase On-grid Inverter

CIT-5K CIT-17K
CIT-10K CIT-20K
CIT-15K CIT-25K

*This product diagram is for reference only,
the delivery in kind shall prevail!



High Yield & Efficiency

- Max. Efficiency of inverter is up to 98.6%;
- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16 A input current per string to compatible with bifacial and large PV modules;
- Low start-up voltage and wide MPP voltage for more power generation time;



Safe & Reliable

- Type II AC&DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, Firmware update remotely or by USB interface;



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Fanless design, natural heat dissipation, low noise;



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

MODEL	CIT-5K	CIT-10K	CIT-15K	CIT-17K	CIT-20K	CIT-25K
Input Data (DC)						
Max. Input Power	7.5kW	15kW	22.5kW	25.5 kW	30 kW	37.5 kW
Max. DC Voltage	1100 V					
Start-up Voltage	180 V					
Nominal Voltage	600 V					
MPPT Voltage Range	140~1000 V			160~1000 V		
No.of MPPT Trackers	2					
No. of PV Strings per MPPT Tracker	1 / 1	1 / 2		2		
Max. Input Current per MPPT Tracker	16A / 16A	16A / 32A		32 A		
Max. Input Short-circuit Current per MPPT	20A / 20A	20A / 40A		40 A		
Output Data (AC)						
Nominal Output Power	5 kW	10 kW	15 kW	17 kW	20 kW	25 kW
Max. AC Apparent Power	5.5 kVA	11 kVA	16.5 kVA	18.7 kVA	22 kVA	27.5 kVA
Nominal AC Voltage	230/400 V, 3L/N/PE or 3L/PE					
AC Grid Frequency	50/60 Hz					
Frequency Range	(45-55)/(55-65) Hz					
Max. Output Current (PF=0.9)	8.0 A	15.9 A	23.9 A	28.4 A	33.4 A	41.8 A
Power Factor	>0.99					
Adjustable Power Factor Range	0.8leading...0.8lagging					
Max. Total Harmonic Distortion	<3% (Rated Power)					
Efficiency						
Max. Efficiency	98.4%	98.5%	98.6%	98.5%		
European Efficiency	97.5%	98.0%	98.1%	98.0%		
MPPT Efficiency	99.9%					
Protection						
Anti-flow Protection	Optional			Yes		
DC Reverse Polarity Protection	Yes					
DC Switch	Yes					
DC Surge Protection	Type II					
Insulation Resistance Monitoring	Yes					
Residual-current Monitoring Unit (GFCI)	Yes					
AC Short-circuit Protection	Yes					
AC Surge Protection	Type II					
Grid Monitoring	Yes					
Anti-islanding Protection	Yes					
String Fault Monitoring	/	Optional		/		
Anti-PID Function	Yes					
AFCI Protection	Optional					
General Data						
Dimensions (W*H*D) mm	440×370×140	440×370×186	440×370×186	520 x 420 x 242		
Weight	13 kg	16 kg	17 kg	27 kg		
Operating Temperature Range	-25°C~60°C (> 45°C derating)					
Relative Humidity	0~100%					
Altitude	4000 m (> 2000 m derating)					
Self-consumption at Night	<1 W					
Topology	Transformerless					
Cooling	Natural convection		Intelligent Air Cooling			
Protection Rating	IP66					
Guarantee Period	5 Years / 10 Years (Optional)					
Display	LED					
Communication	Yes: RS485/USB, Optional: 4G/WiFi					
Standards Compliance						
Grid Connection	NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEIO-21/CEIO-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type A, UNE 217002/217001					
Safety Standards	IEC 62109-1/2					
Others	EN 61000-6-1/2/3/4, IEC 61683, IEC 60068 (1,2,14,30)					

Product specifications are subject to change without further notice.