



NEW
ENERGY

On-Grid Inverter

Single-Phase On-grid inverter

3KW-10KW

ANTENERGY

1

Efficient Higher Revenue

- 2MPP Trackers , Max. input current per string:20A
- 150% DC Input Oversizing
- Compatible with high power modules

2

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WIFI/4G: remote monitoring and operation via PC or mobile phones

3

Reliable Worry Free

- IP66 Protection Degree: support outdoor installation
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

SPECIFICATIONS

Models	Ant-3KSP	Ant-5KSP	Ant-6KSP	Ant-8KSP	Ant-10KSP
Input (DC)					
Max. Input Power	4.5KW	7.5KW	9KW	12KW	15KW
Max. Input Voltage			600V		
Start Voltage		60V		80V	
Rated Input Voltage			360V		
MPPT Voltage Range			50V-550V		
Number of MPP Trackers		1		2	
Number of MPP Trackers/ String per MPPT			1/1		
Max. Current per MPPT			20A		
Max. ShortCircuitCurrent per MPPT			26A		
Output (AC)					
Max. Output Current	10A	22.7A	30A	40A	45.5A
Rated Output Power	3KW	5KW	6KW	8KW	10KW
Max. Output Power	3.3KVA	5KVA	6.65KVA	8.8KVA	10KVA
Rated Grid Frequency			50 Hz/ 60Hz		
Rated Grid Voltage			220Vac / 230Vac / 240Vac		
Power Factor			0.99 (0.8 leading~0.8 lagging)		
THD1			<3% (Rated Power)		
Efficiency					
Max. Efficiency	97.60%	97.80%	98.30%	98.10%	
European Efficiency	97.20%	97.30%	97.40%	97.30%	
MPPT Efficiency			99.90%		
Protection					
DC switch			Optional		
DC Reverse Polarity Protection			yes		
Anti-islanding Protection			yes		
AC Short Circuit Protection			yes		
Residual Current Monitoring Unit			yes		
Insulation Resistance Monitoring			yes		
Ground Fault Monitoring			yes		
Grid Monitoring			yes		
PV String Monitoring			yes		
Surge Protection			yes		
AFCI Protection			Optional		
Communication					
Display			LCD / LED+APP		
Communication			RS485 /WIFI / 4G		
Standard Compliance					
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727 /IEC62116		IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI0-21, CIO/CII, G98/G99, RD244, UNE217001, UNE217002, TOR Erzeuger, AS4777, ABNT, NB/T 32004		
General Data					
Dimensions (W x H x D)	270 x 250 x 130 mm	270 x 250 x 145 mm		380 x 380 x 160 mm	
Weight		6kg		13kg	
Operating Temperature Range			(-30° C~ +60° C)		
Cooling Method		Natural		Smart Cooling	
Protection Degree			IP66		
Max. Operating Altitude			4000m		
Relative Humidity			0~100%		
Topology			Transformerless		
Night Power Consumption			<1W		

Three-Phase On-grid inverter

8KW-15KW



1

Efficient Higher Revenue

- 2MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC Input Oversizing
- Wide MPPT voltage range: 180V-1000V
- Compatible with high power modules

2

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WIFI/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

3

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

SPECIFICATIONS

Models	Ant-8KTP	Ant-10KTP	Ant-12KTP	Ant-15KTP
Input (DC)				
Max. Input Power	12.8KW	16KW	19.2KW	24KW
Max. Input Voltage		1100V		
Start Voltage		200V		
Rated Input Voltage		600V		
MPPT Voltage Range		180V-1000V		
Number of MPP Trackers/ String per MPPT		2/1		
Max. Current per MPPT		18A		
Max. ShortCircuitCurrent per MPPT		25A		
Output (AC)				
Max. Output Current	12.8A	15.9A	19.1A	23.9A
Rated Output Power	8KW	10KW	12KW	15KW
Max. Output Power	8.8KVA	11KVA	13.2KVA	16.5KVA
Rated Grid Frequency		50 Hz/ 60Hz		
Rated Grid Voltage		230Vac / 400Vac, 3L / N /PE		
Power Factor		0.99 (0.8 leading~0.8 lagging)		
THD1		<3% (Rated Power)		
Efficiency				
Max. Efficiency		98.70%		
European Efficiency		98.50%		
MPPT Efficiency		99.90%		
Protection				
DC Reverse Polarity Protection		yes		
Anti-islanding Protection		yes		
AC Short Circuit Protection		yes		
Residual Current Monitoring Unit		yes		
Insulation Resistance Monitoring		yes		
Ground Fault Monitoring		yes		
Grid Monitoring		yes		
Surge Protection		Type II		
AFCI Protection		Optional		
Communication				
Display		LCD / LED+APP		
Communication		Standard: RS485 Optional: WIFI / GPRS / Ethernet		

Standard Compliance	
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61683, IEC60068, IEC61727/IEC62116, EN50549, CEIO-21, CIO/CII, VDE 4105, VDE 0124, G98/G99, RD244, UNE217001, UNE217002, NC RIG, TOR Erzeuger, AS4777, ABNT, NB/T 32004, BIS

General Data	
Dimensions (W x H x D)	481 x 390 x 190 mm
Weight	13.5kg
Operating Temperature Range	(-30° C~ +60° C)
Cooling Method	Natural
Protection Degree	IP66
Max. Operating Altitude	4000m
Relative Humidity	0~100%
Topology	Transformerless
Night Power Consumption	<1W

Three-Phase On-grid inverter

20KW-40KW



1

Efficient Higher Revenue

- 3-4MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC Input Oversizing
- Maximum efficiency of 98.6%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules

2

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WIFI/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile

3

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

SPECIFICATIONS

Models	Ant-20KTP	Ant-25KTP	Ant-30KTP	Ant-36KTP	Ant-40KTP
Input (DC)					
Max. Input Power	32KW	40KW	48KW	57.6KW	64KW
Max. Input Voltage			1100V		
Start Voltage			250V		
Rated Input Voltage			600V		
Full-load MPPT Voltage Range	480V-800V	520V-800V		500V-800V	
MPPT Voltage Range		520V-800V		200V-1000V	
Number of MPP Trackers		2	3		4
Number of MPP Trackers/ String per MPPT	2/2	2/3		2	
Max. Current per MPPT	32A	32A/48A		26A	
Max. ShortCircuitCurrent per MPPT	40A	40A/60A		32A	
Output (AC)					
Max. Output Current	32.1A	39.8A	48.3A	57.8A	64.3A
Rated Output Power	20KW	25KW	30KW	36KW	40KW
Max. Output Power	22.2KVA	27.5KVA	33.3KVA	39.6KVA	44KVA
Rated Grid Frequency			50 Hz/ 60Hz		
Rated Grid Voltage			230Vac / 400Vac, 3L / N / PE		
Power Factor			0.99 (0.8 leading~0.8 lagging)		
THD1			<3% (Rated Power)		
Efficiency					
Max. Efficiency		98.40%		98.60%	
European Efficiency		98.00%		98.50%	
MPPT Efficiency			99.90%		
Protection					
DC Reverse Polarity Protection			yes		
Anti-islanding Protection			yes		
AC Short Circuit Protection			yes		
Residual Current Monitoring Unit			yes		
Insulation Resistance Monitoring			yes		
Ground Fault Monitoring			yes		
Grid Monitoring			yes		
PV String Monitoring			yes		
Surge Protection			Type II		
AFCI Protection			Optional		
Communication					
Display			LCD / LED+APP		
Communication			Standard: RS485		
			Optional: WIFI / GPRS / Ethernet		
Standard Compliance					
		IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC60068, IEC61683, EN 50549, IEC61727/IEC62116, CEI 0-21, CIO/CII, VDE 4105, VDE 0124, RD244, UNE217001, UNE217002, NC RIG, AS4777, NB/T 32004, BIS		IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21,CIO/CII, VDE 4105, VDE 0124, RD244, UNE217001, UNE217002, NC RIG, TOR Erzeuger, AS4777, NRS097-2-I, NB/T 32004, BIS	
Certification					
General Data					
Dimensions (W x H x D)	534 x 440 x 220 mm			600 x430 x 230 mm	
Weight	30kg			32kg	
Operating Temperature Range			(-30° C~ +60° C)		
Cooling Method			Smart Cooling		
Protection Degree			IP66		
Max. Operating Altitude			4000m		
Relative Humidity			0~100%		
Topology			Transformerless		
Night Power Consumption			<1W		

Three-Phase On-grid inverter

50KW-70KW



- 1 Efficient Higher Revenue**
 - * 4MPPT Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation 160% DC Input Oversizing
 - * Wide MPPT voltage range: 200V-1000V
 - * Compatible with high power modules
- 2 Intelligent Simple O&M**
 - * Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
 - * Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
 - * Support RS485 (WIFI/GPRS/Ethernet optional): remote monitoring and operation
- 3 Reliable Worry Free**
 - * IP66 Protection degree: support outdoor installation
 - * DC & AC Type II SPD: prevent lightning damage
 - * AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

SPECIFICATIONS

Models	Ant-50KTP		Ant-60KTP		Ant-70KTP	
Input (DC)						
Max. Input Power	80KW		96KW		112KW	
Max. Input Voltage			1100V			
Start Voltage			250V			
Rated Input Voltage	600V				700V	
Full-load MPPT Voltage Range	520V-850V				600V-850V	
MPPT Voltage Range			200V-1000V			
Number of MPP Trackers			4			
Number of MPP Trackers/ String per MPPT	3/2/3/2				3/3/3/3	
Max. Current per MPPT	39A/26A				39A	
Max. ShortCircuitCurrent per MPPT	48A/32A				48A	
Output (AC)						
Max. Output Current	79.7A		95.6A		92.6A	
Rated Output Power	50KW		60KW		70KW	
Max. Output Power	55KVA		66KVA		77KVA	
Rated Grid Frequency			50 Hz/ 60Hz			
Rated Grid Voltage			230Vac / 400Vac		277Vac / 480Vac	
Power Factor			0.99 (0.8 leading~0.8 lagging)			
THD1			<3% (Rated Power)			
Efficiency						
Max. Efficiency	98.70%				98.80%	
European Efficiency			98.40%		98.50%	
MPPT Efficiency			99.90%			
Protection						
DC Reverse Polarity Protection			yes			
Anti-islanding Protection			yes			
AC Short Circuit Protection			yes			
Residual Current Monitoring Unit			yes			
Insulation Resistance Monitoring			yes			
Ground Fault Monitoring			yes			
Grid Monitoring			yes			
PV String Monitoring			yes			
Surge Protection			Type II			
AFCI Protection			Optional			
Communication						
Display			LCD / LED+APP			
Communication			Standard: RS485			
			Optional: WIFI / GPRS / Ethernet			
Standard Compliance						
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21,CEI 0-16, CIO/CII, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RIG, NRS097-2-I, NB/T 32004, BIS					
General Data						
Dimensions (W x H x D)			650 x 450 x 260 mm			
Weight			50kg			
Operating Temperature Range			(-30° C~ +60° C)			
Cooling Method			Smart Cooling			
Protection Degree			IP66			
Max. Operating Altitude			4000m			
Relative Humidity			0~100%			
Topology			Transformerless			
Night Power Consumption			<1W			

Three-Phase On-grid inverter

100KW-150KW



- 1

**Efficient
Higher Revenue**

- 9-12 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
 - 150% DC Input Oversizing
 - Wide MPPT voltage range: 180V-1000V
 - Compatible with high power modules
- 2

**Intelligent
Simple O&M**

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
 - Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
 - Support RS485 (WIFI/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones
- 3

**Reliable
Worry Free**

- IP66 Protection degree: support outdoor installation
 - DC & AC Type II SPD: prevent lightning damage
 - AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

SPECIFICATIONS

Models	Ant-100KTP	Ant-110KTP	Ant-125KTP	Ant-150KTP
Input (DC)				
Max. Input Voltage			1100V	
Start Voltage			200V	
Rated Input Voltage		620V		730V
MPPT Voltage Range			180V-1000V	
Number of MPP Trackers		8/2		9/2
Number of MPP Trackers/ String perMPPT		2		
Max. Current per MPPT		40A		
Max. ShortCircuitCurrent per MPPT		50A		
Output (AC)				
Max. Output Current	159A	175A	198.5A	198.5A
Rated Output Power	100KW	110KW	125KW	150KW
Max. Output Power	110KW	121KW	137.5KW	165KW
Rated Grid Frequency			50 Hz/ 60Hz	
Rated Grid Voltage		230Vac / 400Vac, 3L / N / PE, 3L / PE		277Vac / 480Vac, 3L / PE
Power Factor			0.99 (0.8 leading~0.8 lagging)	
THD1			<3% (Rated Power)	
Efficiency				
Max. Efficiency			98.60%	
European Efficiency			98.00%	
MPPT Efficiency			99.90%	
Protection				
DC Reverse Polarity Protection			yes	
Anti-islanding Protection			yes	
AC Short Circuit Protection			yes	
Residual Current Monitoring Unit			yes	
Insulation Resistance Monitoring			yes	
Ground Fault Monitoring			yes	
Grid Monitoring			yes	
PV String Monitoring			yes	
Surge Protection			Type II	
AFCI Protection			Optional	
PID Recovery			Optional	
Communication				
Display			LCD / LED+APP	
Communication			Standard: RS485 Optional: WIFI / DRM / Bluetooth/4G	
General Data				
Dimensions (W x H x D)			1040 x 670 x 350 mm	
Weight			85kg	
Operating Temperature Range			(-30° C~ +60° C)	
Cooling Method			Smart forced air cooling	
Protection Degree			IP66	
Max. Operating Altitude			4000m	
Relative Humidity			0~100%	
Topology			Transformerless	
Night Power Consumption			<1W	