

Apollo

Residential Three-phase On-grid String Inverter for Photovoltaic Power Apollo Series
Apollo 8000-T1~Apollo 30K-T1



ZONERGY



The DC capacitance ratio can reach as high as 1.5 times, which is perfectly suitable for high current and double-sided solar panels.



DC arcing detection function can be selected to eliminate potential fire hazards.



The adaptive control algorithm adopted ensures the product fit for unstable grid.



Flexible monitoring modes support RS485, Wi-Fi and GPRS.



The product has IP66 degrees of protection and C5 anti-corrosion.



The product supports output of 1.1 times overload. This effectively increases power generation.

Apollo 8000-T1~Apollo 30K-T1 Technical parameters

Technical parameters:	Apollo 8000-T1	Apollo 10K-T1	Apollo 12K-T1	Apollo 15K-T1	Apollo 17K-T1	Apollo 20K-T1	Apollo 25K-T1	Apollo 30K-T1
Input parameters (DC)								
Maximum panel input power recommended (kW)	12	15	18	22.5	25.5	30	32.5	39
Maximum DC input voltage (V)	1100							
Maximum input current of each MPPT (A)	16		20		26			32
Short circuit current of each MPPT (A)	25		25		39			50
Max.Power of each MPPT (kW)	9.6		12		15.6			19.5
No. of MPPT / strings	2/1		2/2		2/2			2/2+3
Start-up voltage (V)	180							
MPPT Voltage range (V)	160V~1000							
Full-load MPPT Voltage range (V)	550~850							
Rated input voltage (V)	600							
Output parameters (AC)								
Rated output power (kW)	8.8kW@40°C 8kW@45°C	11kW@40°C 10kW@45°C	13.2kW@40°C 12kW@45°C	16.5kW@40°C 15kW@45°C	18.7kW@40°C 17kW@45°C	22kW@40°C 20kW@45°C	27.5kW@40°C 25kW@45°C	33kW@40°C 30kW@45°C
Maximum apparent power (kVA)	8.8	11	13.2	16.5	18.7	22	27.5	33
Max.output power (kW)	8.8	11	13.2	16.5	18.7	22	27.5	33
Output connection type	3W+PE or 3W+N+PE							
Rated voltage/Voltage range (V)	380/320~480							
Rated grid frequency	45~55Hz / 55~ 65Hz (According to local grid standards)							
Rated output current (A)	12.2	15.2	18.2	22.8	25.8	30.4	38.0	45.6
Maximum output current (A)	13.4	16.7	20.1	25.1	28.4	33.4	41.8	50.1
Power Factor (settable)	> 0.99 @ full power (adjustable range: 0.8 leading ~ 0.8 lagging)							
Total Harmonic Distortion THDi (full load)	< 3% (full load)							
Efficiency								
MPPT efficiency	99.9%		99.9%		99.9%		99.9%	
Maximum efficiency	98.4%		98.5%		98.6%		98.6%	
Euro. efficiency	97.8%		98.0%		98.1%		98.2%	
China efficiency	97.5%		97.8%		98.0%		98.0%	
Protection function								
DC switch with Shunt release	Available							
Output short circuit protection	Available							
Power grid fault monitoring	Available							
DC reverse connection protection	Available							
String monitoring	Available							
DC lightning protection	type II							
AC lightning protection	type II							
DC insulation impedance detection	Available							
AC leakage current detection	Available							
Over-temperature protection	Available							
DC component monitoring	Available							
DC fuse	/							
Islanding detection	Available							
Smart IV diagnosis	Available							
Arc fault detection	Optional							
Bus voltage monitoring	Available							
PID repair and protection	Optional							
Low Voltage Ride Through	Available							
Arc fault detection	Option							
Remote upgrade and setup	Available							
anti-counterflow meter	Available							
Fault recorded	Available							
Nighttime SVG features	Optional							
Display and communication								
Display mode	LED+bluetooth+APP							
Communication mode	RS485/4G/WIFI							
General parameters								
Dimension (mm)(W×H×D)	430×380×180							
Weight (kg)	17				17			
Operating temperature range	-30°C ~ +60°C (> 45°Derating use)							
Cooling mode	Air colling without fan				Intelligent air cooling with Fan			
Maximum altitude for product operation	4000m (> 2000m Rating reduction occurs)							
Relative Humidity	0~100%							
Input terminal	MC4 (Amphenol)							
Output terminal	OT/DT terminal(Max.50mm² cable section)							
Degree of protection	IP66							
Self power consumption at night	<1W							
Noise (dB)	<35				<40			
Topology	no transformer							
Certification								
Standards	NBT32004, IEC62109, IEC61727, IEC61683, IEC62116							
Warranty	5 Year Product Warranty, 10 Year Performance Warranty							

Note: Technical parameters listed hereunder are for reference only. Actual parameters shall be subject to products shipped.