

ATOM POWER

A Wavetec Company



Power your life with **Atom Power** ATP Series Solar Inverters

The **ATP Series solar storage inverters** offer top-tier efficiency and reliability with advanced MPPT technology and seamless **Li-ion** battery integration. With a pure sine wave output, modern aesthetics, and user-friendly design, they ensure cost-saving performance.



Residential
Homes



Commercial
Buildings



Industrial
Facilities



Renewable
Energy Farms



Remote
Areas

ATP: Inverter Technical Specifications

MODEL	ATP-3.5K-SP	ATP-6K-SP
OFF-GRID OUTPUT		
Rated Output Power	3,500W	6,000W
Max. Peak Power	6,000VA	12,000VA
Rated Output Voltage	230Vac single phase	230Vac single phase
Output Frequency Range	50Hz ± 0.3Hz / 60Hz ± 0.3Hz	50Hz ± 0.3Hz / 60Hz ± 0.3Hz
ON-GRID OUTPUT		
Rated Output Power	3,500W	6,000W
Max. Apparent Power	6,000VA	12,000VA
Rated Output Current	15A	26A
Max. Output Current	17.2A	28.6A
Power Factor	1	0.8 leading to 0.8 lagging
Rated Voltage	230Vac, single phase	230Vac, single phase
Frequency	50Hz/60Hz	50Hz / 60Hz
BATTERY		
Battery Type	Lead-acid / Li-ion / User defined	Lead-acid / Li-ion / User defined
Rated Battery Voltage	24V	48V (minimum start-up voltage 44V)
Battery Voltage Range	20~33Vdc	40~60Vdc
Max. PV Charging Current	80A	100A
Max. Utility Charging Current	80A	60A
Max. Generator Charging Current	80A	60A
PV INPUT		
Num. of MPPT Trackers	1	2
Max. PV Array Power	4,000W	4,500W + 4,500W
Max. Input Current	13A	16A + 16A
Max. Short-circuit Current	17.5A	27A + 27A
Max. Open-circuit Voltage	500Vdc	500Vdc+500Vdc
MPPT Operating	120-450Vdc	120-450Vdc
UTILITY / GENERATOR INPUT		
Input Voltage Range	90~280Vac	90~280Vac
Frequency Range	50/60Hz	50/60Hz
Bypass Overload Current	30A	40A
EFFICIENCY		
MPPT Tracking Efficiency	99.90%	99.90%
Max. Efficiency	92%	97.50%
GENERAL		
Dimensions	378*280*103mm	556*345*182mm
Weight	7.4kg	20kg
Protection Degree	IP20	IP65
Operating Temperature Range	-10°C~55°C	-25°C to 60°C (Derating above 45°C)
Humidity Range	0~100%	0~100%
Cooling Method	Internal Fan	Heatsink & Intelligent Air Cooling
COMMUNICATION		
Internal Interface	RS485 / CAN / USB / Dry contact	RS485 / CAN / USB / Dry contact
External Module (optional)	Wi-Fi	Wi-Fi
CERTIFICATION		
On-grid Certification		EN50549-1, G99, NRS-097, VDE-ARN-4105, CEI021, UNE217002
Safety	CE(IEC 62109-1)/FCC/SAA	EN61000-6-1, EN61000-6-3
EMC	EN61000, C2	FCC 15 Class B
RoHS	Yes	Yes

ATP: Inverter Technical Specifications

MODEL	ATP-10K-SP	ATP-12K-H3P
INVERTER OUTPUT		
Rated Output Power	10,000W	12,000W
Max. Peak Power	20,000VA	24,000VA
Rated Output Voltage	230Vac single-phase	three-phase
Output Frequency	50/60Hz	50/60Hz
AC OUTPUT Grid		
Rated Output Power	10,000W	12,000W
Max. Apparent Power	10,000VA	12,000VA
Max. Output Current	43.5A	17.4A
Power Factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Frequency	50Hz/60Hz	50Hz/60Hz
BATTERY		
Battery Type	Lead-acid/Li-ion/ User Defined	Lead-acid/Li-ion/ User Defined
Rated Battery Voltage	48V	48V
Battery Voltage Range	40~60Vdc	40~60Vdc
Max. Generator	60A	120A
Charging Current		
Max. Grid Charging Current	120A	120A
Max. PV Charging Current	200A	120A
Max. Hybrid	200A	260A
Charging Current		
PV INPUT		
Num. of MPPT Trackers	2	2
Max. PV Array Power	5.500W+5,500W	9.000W+9,000W
Max. Input Current	22A+22A	22A+22A
Max. PV Isc		37A+37A
Max. Open Circuit Voltage	500Vdc+500Vdc	800Vdc+800Vdc
MPPT Voltage Range	125-425Vdc	200-650Vdc
MAINS/GENERATOR INPUT		
Input Voltage Range	90~280Vac	Linevoltage90~280Vac
Frequency Range	50/60Hz	50/60Hz
Bypass Overload Current	63A	35A
EFFICIENCY		
MPPT Tracking Efficiency	99.90%	99.90%
Max. Efficiency	97.50%	97.50%
GENERAL		
Dimensions	670*440*240mm	700*440*260mm
Weight	37kg	39.2kg
Protection Degree	IP65	IP65
Operating Temperature Range	-25~60°C,>45°C derated	-25~60°C,>45°C derated
Humidity Range	0~100%	0~100%
Cooling Method	Forced air cooling	Forced air cooling
COMMUNICATION		
Embedded Interface	RS485 / CAN / USB / Dry contact	RS485 / CAN / USB / Dry contact
External Module	Wi-Fi	Wi-Fi
CERTIFICATION		
Safety	IEC 62109-1	IEC 62109-2
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B	EN61000-6-1, EN61000-6-3, FCC 15 class B
Rohs	Yes	Yes



Efficiency

Equipped with robust security features, this product meets multiple safety standards



Safety

Supports up to 200A charging current and seamless Li-ion battery BMS communication



All-in-One

Features a modern industrial design, easy installation, and user-friendly operation



Reliable

Delivers high-quality pure sine wave AC power with IP65 protection



User-Friendly

Offers exclusive Li-ion battery BMS dual activation and a cost-saving time-slot function for peak-valley efficiency



Intelligent

Features advanced MPPT with up to 99.9% efficiency and dual PV input current of up to 22A each