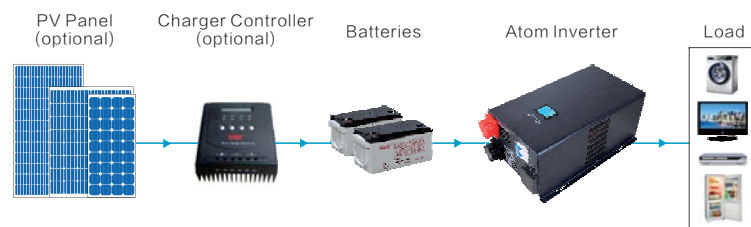


# Atom Inverter

## 300W ~ 3500W



The Atom Inverter is desirable long backup power solution for home and office appliances. It is not only an inverter but also contains a powerful intelligent charger. It provides pure sine wave power to all kinds of loads. And it can be used as UPS for computers as well.



## Features

- DSP digital control technology
- Pure sine wave output
- Suitable for all kinds of loads, such as resistive, inductive and rectified loads and motors
- Use of pulse by pulse technology, improving load shock ability
- Maximum charging current up to 60A. Settable charging current and charging voltage on front panel
- Settable no-load shutdown and energy saving mode
- Short circuit, overload and low battery protection
- Intelligent long backup time up to 10 hours (based on battery bank and loads)
- Compatible with generators and the matching of inverter and generator is settable
- Usable as off-grid solar inverter combined with charging controller



## Technical specifications

MODEL	ATOM 300	ATOM 600	ATOM 1000	ATOM 1600	ATOM 2500	ATOM 3500
<b>Capacity</b>	<b>300 W</b>	<b>600 W</b>	<b>1000 W</b>	<b>1600 W</b>	<b>2500 W</b>	<b>3500 W</b>
<b>DC INPUT</b>						
Nominal input voltage	12 V			24 V		
DC input voltage range	10 V ~ 15 V			20 V ~ 30 V		
<b>AC INPUT</b>						
Bypass voltage	0 ~ 264 Vac / 276 Vac / 288 Vac ±10 Vac for 220 Vac / 230 Vac / 240 Vac					
AC voltage	150 ~ 282 Vac for 220 Vac, 156 ~ 294 Vac for 230 Vac, 163 ~ 307 Vac for 240 Vac					
Frequency	50 Hz / 60 Hz (auto-sense), 45 ~ 55 Hz for 50 Hz, 55 ~ 65 Hz for 60 Hz					
Input voltage of generator	99 ~ 282 Vac for 220 Vac, 104 ~ 294 Vac for 230 Vac, 108 ~ 307 Vac for 240 Vac					
Input frequency of generator	40 ~ 70 Hz					
Input power limitation	Rated power 10% ~ 150%, regulating step 10%					
<b>OUTPUT</b>						
DC mode output voltage	220 V / 230 V / 240 Vac ±5%					
AC mode output voltage	174 ~ 242 Vac for 220 Vac, 182 ~ 253 Vac for 230 Vac, 190 ~ 264 Vac for 240 Vac					
Nominal output frequency	50 Hz / 60 Hz ±0.3 Hz ( auto-sense & settable)					
Output waveform	Sinusoidal					
Output power	300 W	600 W	1000 W	1600 W	2500 W	3500 W
Efficiency	Max. 95% (mains mode); Max. 80% (inverter mode)					
ECO mode	Settable (< 3% load) to enter in 80 s					
No-load shutdown	Settable (< 3% load) shutdown in 80 s					
Transfer time	≤ 10 ms			≤ 15 ms		
Power factor	1.0					
THD	< 5% (linear load)					
Overload	Mains mode: 110% for 120 s, 125% for 60 s, 150% for 10 s (switch to bypass) Inverter mode: 110% for 60 s; 125% for 10 s; 150% for 10 s (shut down)					
<b>BATTERIES</b>						
Charging current (selectable)	Max. 15 A	Max. 30 A	Max. 40 A	Max. 40 A	Max. 50 A	Max. 60 A
Equalizing charge voltage	Single battery 14.1 Vdc (default), 13.6 ~ 15 Vdc adjustable					
Floating charge voltage	Single battery 13.5 Vdc (default), 13.2 ~ 14.6 Vdc adjustable					
Charge mode	3 stage charge mode					
EOD	Single battery 10.2 Vdc (default), 9.6 ~ 11.5 Vdc adjustable					
Reverse warning	Buzzer					
<b>OTHERS</b>						
Human-machine interface	LCD & BUZZER					
Operating temperature	0°C ~ 40°C					
Operating humidity	5% ~ 95% RH					
Forced air cooling	Variable speed fans					
Net weight (kg)	8.3	11.3	14.0	20.2	32.0	36.0
Gross weight (kg)	9.3	12.3	15.0	21.2	34.0	38.0
Dimensions (W × D × H) (mm)	280 × 258 × 120		293 × 280 × 160		302 × 479 × 209	
Packaged dimensions (W × D × H) (mm)	330 × 352 × 200		370 × 355 × 235		353 × 582 × 287	

\* All specifications subject to change without notice