

American Split Phase Hybrid Inverter

ATG-I-L02-7.6kW/10kW



Designed, Developed, and Technical Supported in USA

FEATURES



MAXIMIZE PV INPUT POWER

- ◆ Up to 200% oversizing allowed with 3 MPPTs
- ◆ Support high power module with 30A PV input current
- ◆ Support AC coupled solar input
- ◆ Integrated arc fault circuit interrupter (AFCI) and Rapid Shutdown



FLEXIBLE BATTERY CONFIGURATION

- ◆ Built-in DC Breaker for safety and reliability
- ◆ Support 40V-64V Lithium or Lead-acid battery
- ◆ Maximum battery charge/discharge current of 210A



VERSATILE APPLICATIONS

- ◆ Stackable up to 9 units
- ◆ Standby generator connection for whole-home back up
- ◆ Four application modes, mixed with time control
- ◆ Remote configuration and upgrade



STABLE OUTPUT POWER

- ◆ Continuous 110% of nominal AC power
- ◆ Support 120/240/208V connections
- ◆ Seamless backup transition (<10ms)

Technical Specifications

Model	ATG-I-L02-7.6kW	ATG-I-L02-10kW
Efficiency		
Max. Efficiency (PV to AC)		98.0%
Max. Efficiency (BAT to AC)		94.5%
Input (PV)		
Max. PV Input Power	12,000W	15,000W
Max. PV Voltage		600V
Start-up Voltage		90V
MPPT Operating Voltage Range		70V-540V
Max. Input Current per MPPT		30A/22A/22A
Max short current per MPPT		40A/30A/30A
String per MPPT		6 (2/2/2)
Nos. of MPPT		3
Input/Output (BAT)		
Battery Type		Lithium-ion/Lead-acid
Nominal Battery Voltage		48V
Battery Voltage Range		40V-64V
Max. Charge/Discharge Current	210A/180A	210A/210A
Max. Charge/Discharge Power	10,000W/7,600W	11,400W/11,400W
Output (Grid)		
Nominal AC Output Power	7,600W	10,000W
Max. AC Output Apparent Power	7,600VA	11,400VA
Max. AC Output Power (PF=1)	7,600W	11,400W
Nominal AC Output Current	31.7A/36.6A	41.7A/47.5A
Max. AC Output Current	40.4A	47.5A
Nominal Grid Voltage		120V/240V (Split phase) / 208V (2/3 phase)
Nominal Grid Frequency		50Hz/60Hz
Grid Frequency Range		45Hz-55Hz/55Hz-65Hz(Adjustable)
Power Factor		> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)
THDI		<3% (Rated Power)
Output (Back up)		
Nominal Output Power	7,600W	10,000W
Nominal Output Current	31.7A/36.6A	41.7A/47.5A
Peak Power (1s)	15,200VA	20,000VA
Nominal Output Voltage		120V/240V (Split phase) / 208V (2/3 phase)
Nominal Output Frequency		50Hz/60Hz
Transfer Time		< 10ms
THDV		<3% @100% R Load
Protection		
Protection Category		Class I
DC Switch		Yes
Anti-islanding Protection		Yes
AC Overcurrent Protection		Yes
DC/AC Overvoltage Protection		DC Type II, AC Type III
AC Short Circuit Protection		Yes
DC Reverse Protection		Yes
Surge Arrester		DC Type II, AC Type II
Insulation Resistance Detection		Yes
Leakage Current Protection		Yes
AFCI		Yes
RSD		Yes (APsystems Sunspec)
Generator		Yes
General		
Max. Operation Altitude		2000m
Ingress Protection Degree		IP65/NEMA 3R
Operating Temperature Range		-25~60°C (>45°C derating)[13~140°F (>113°F derating)]
Relative Humidity		0~100%
Cooling Method		Fan Cooling
Mounting		Wall bracket
Dimensions (W*H*D)		420mm*800mm*240mm(16.5*31.5*9.4in)
Weight		40kg/88lbs
PV Connection Way		Terminals
HMI & COM		
Display		Wireless & APP + LED, LCD (optional)
Communication Interface		RS485/CAN (for BMS), DRM/RS485 (for meter), RS485, Optional: WiFi /LAN
Certification		
Safety		UL 1741/CSA C22.2/UL 1699B
Grid		UL1741SB, IEEE1547: 2018, HECO SRD 2.0
EMC		FCC Part 15 Class B
Warranty		5 Years

*The range of output voltage and frequency may vary depending on different grid codes.Specifications are subject to change without advanced noticed.