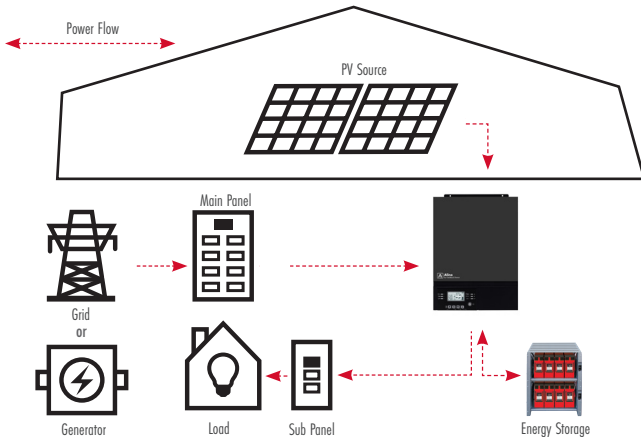




Features:

- Available as ATL3024E (24VDC 3,000W) and ATL5048E (48VDC 5,000W), 50/60Hz
- Built-in 80A, 450VDC solar charge controller; can drive AC loads off of PV array
- Max PV array 5,000W at 48V and 3,000W at 24V
- A detachable LCD display provides comprehensive monitoring
- Bluetooth app for android phones
- Rugged (-10 to 50°C), proven design with twin replaceable fans
- Battery optional design provides daytime PV driven loads
- Full programmable battery charger for lead acid and Lithium ion batteries
- CE Mark, certified to IEC62109-1,-2
- Online monitoring available, Optics RE interface available soon
- Two year standard warranty and support from Outback Power

Typical System Integration



The Alino TL is a compact, lightweight off-grid inverter that is ideal for rugged installations that require OutBack Power reliability.

The Alino TL by OutBack Power offers a complete inverter and solar charge controller solution in one. The Alino TL has the ability to add batteries now or in the future which helps to meet the goals for emerging markets around the world. To choose seal, flooded or Lithium provides a full range of storage options. A significant investment in renewable energy does not need to end when the batteries do, the Alino TL will continue to provide AC power during strong sunlight hours. With a grid connected Alino and PV; self-consumption

resulting in a reduced power bill can be accomplished with or without storage. With Time Of Use, you can choose when to use the grid, batteries, or charge from the PV array. The Alino TL will offer monitoring and data collection through Optics RE, to complement the blue tooth connection and Android App built into the Alino TL.

Models	ATL3024E	ATL5048E
Parameters		
Type	Single-phase transformer-less solar charge controller and inverter/charger	Single-phase transformer-less solar charge controller and inverter/charger
Nominal DC Input Voltage	24VDC	48VDC
Maximum Continuous Power Rating	3,000W (pf of 1.0)	5000W (pf of 1.0)
Surge Maximum Power Rating (at 5 sec)	6,000VA	10,00VA
Nominal Output	230 Vac +/- 5% 50Hz / 60Hz (auto-sensing)	230 Vac +/- 5% 50Hz / 60Hz (auto-sensing)
Electrical—Solar		
Charger Technology	MPPT	MPPT
PV Charge Controller Rating	4000W	5000W
Battery Input Range	24 to 33VDC	46 to 63VDC
Absolute Maximum VOC	450Voc @ 25°C 500Voc @ Minimum temperature	450Voc @ 25°C 500Voc @ Minimum temperature
MPPT Voltage Limit	120 to 450VDC	120 to 450VDC
Panel High Voltage Cut-Off	>450VDC	>450VDC
Recommended PV Panel	72 & 60 cells solar panels	72 & 60 cells solar panel
Recommended PV Panel Configuration	5 to 10 panels per string and up to 2 strings in parallel	5 to 10 panels per string and up to 2 strings in parallel
Maximum Battery Charging Current	80ADC	80ADC
MPPT Tracking Efficiency	>99.5%	>99.5%
Charging Modes	Four modes (bulk/absorption/float/equalization)	Four modes (bulk/absorption/float/equalization)
Battery Type Selection	Default flooded or sealed maintenance-free (VRLA/GEL/AGM); Lithium Ion battery ready	Default flooded or sealed maintenance-free (VRLA/GEL/AGM); Lithium Ion battery ready
Battery High Cut-Off	>33VDC	>63VDC
Electrical—Grid		
Input Voltage Range	170 to 280VAC	170 to 280VAC
Input Frequency Range	40 to 65Hz	40 to 65Hz
Frequency (Nominal)	50 / 60Hz Auto-sensing	50 / 60Hz Auto-sensing
Battery Charging Current from Mains @ Nominal AC input	15ADC	15ADC
Transfer Time (Utility/Generator to Inverter)	<15ms for electronic loads and <20ms for heavy loads	<15ms for electronic loads and <20ms for heavy loads
Electrical—Inverter		
Output Voltage Re	230VAC	230VAC
Frequency	50Hz ± 60Hz Auto-sensing	60Hz ± 0.5Hz Auto-sensing
Output Wave Form	Pure sinewave	Pure sinewave
Load Regulation	±2%	±2%
Peak Efficiency	93%	93%
THD (Linear Load)	<5% and <10% non-linear load when Vbat >25V	<5% and <10% non-linear load at Vbat >50VDC
Electrical—PCU		
Mode of Operation	Solar Utility Battery, Solar Battery Utility, Utility Solar Battery, Solar Only, UPS, Bypass	Solar Utility Battery, Solar Battery Utility, Utility Solar Battery, Solar Only, UPS, Bypass
Self Consumption	<40 W	<50 W
Mechanical		
Dimensions L x W x D (mm/in)	400 x 300 x 115 4.5 x 11.8 x 17.3	400 x 300 x 115 4.5 x 11.8 x 17.3
Net Weight (kg/lb)	9/19.8	10/22
Communications Interface	USB / RS232 / RS485 / Bluetooth / Dry Contact	USB / RS232 / RS485 / Bluetooth / Dry Contact
Environmental		
Operating Temperature	-10° to +50°C	-10° to +50°C
Relative Humidity Range (Non-Condensing)	5% to 95%	5% to 95%
Storage Temperature	-15° to +60°C	-15° to +60°C
Altitude	1,500m above sea level	1,500m above sea level
Operating Environment	Indoor/protected. IP21.	Indoor/protected. IP21.
Charger Default Settings		
Bulk Charging Voltage	29.2VDC Flooded battery 28.2VDC AGM/Gel battery	58.4VDC Flooded battery 56.4VDC AGM/Gel battery
Float Charging Voltage	27.0VDC	54.0VDC



This product is certified to the following standards: IEC 62109-1:2010 and IEC 62109-2:2011. This product has been issued EMTEK Certificate of Conformity No.E5181229002P.
 Note: Due to Continuous product improvements specifications are subject to change without prior notice.