

INVERTER/CHARGER

TECA LITIO

IIP-241000BFL / IIP-242000BFL
 IIP-243000BFL / IIP-484000BFL
 IIP-485000BFL

LITHIUM GENERATION



Inti's Teca Lithium series inverter is a low frequency pure wave inverter charger that combines transfer switch between battery, inverter and AC charger compatible with lead or lithium batteries through RS485 communication. The inverter can work with grid priority or solar priority depending on the needs of the installation.

The use of lithium batteries requires the charging mode of the equipment to be different from the traditional 3-stage method. This inverter is designed with internal charging software that provides more charging options and incorporates the appropriate mode for the use of lithium batteries.

The inverter features voltage and frequency ranges, battery charging modes and automatic over-temperature restart programmable through its LCD display, and a power-saving mode that can be activated to help preserve battery capacity during long periods of battery non-operation.

Features

- AC input protection for over voltage and under voltage.
- DC input protection for over voltage and under voltage
- AC output short-circuit protection
- Over temperature protection.
- Over load protection
- Inverse current protection
- Inverter disconnection in case of out-of-range operation.
- Compatible with Inti lithium batteries through CANbus and RS485 communication
- Heavy duty operation.
- Internal toroidal transformer
- IP20 protection
- Total Harmonic Distortion (THD) < 3%

Model	IIP-241000BFL	IIP-242000BFL	IIP-243000BFL	IIP-484000BFL	IIP-485000BFL
Rated Output Power	1000VA	2000VA	3000VA	4000VA	5000VA
Input DC Voltage Range	21V-32V	21V-32V	21V-32V	42V-64V	42V-64V
Rated DC Voltage	24V	24V	24V	48V	48V
Inverter Mode					
Potencia Continua @25°C (nominal)	1000VA	2000VA	3000VA	4000VA	5000VA
Pico de arranque (20ms)	3000VA	6000VA	9000VA	12000VA	15000VA
Rated Output Voltage (RMS)	120/230Vac (100 a 120Vac; 200 a 240Vac)				
Frequency	50Hz ± 0,1Hz o 60Hz ± 0,1Hz				
Waveform	Pure Wave				
Efficiency at rated power	≥93%				
Inverter peak efficiency	≥95%				
Power Factor	0,9 to 1				
Time of transfer	Bypass - Inversor ≤ 8ms; Inversor - Bypass ≤ 15ms				
Online Mode					
Input voltage range	Rated output voltage ± 15% (narrow range), rated output voltage ± 23% (wide range)				
Input voltage frequency	40Hz to 70Hz				
Input waveform	Pure wave: red or generator				
Shortcircuit Protection	Breaker				
Online mode transfer efficiency	>95%				
Charger					
Minimum Start-up Voltage	20Vdc/21Vdc		40Vdc/42Vdc		
Low Voltage Alarm	21Vdc ± 0,3Vdc		42Vdc ± 0,3Vdc		
Low Voltage Shutdown	20Vdc ± 0,3Vdc		40Vdc ± 0,3Vdc		
High Voltage Alarm	32Vdc ± 0,3Vdc		64Vdc ± 0,3Vdc		
High Voltage Recovery	31Vdc ± 0,3Vdc		62Vdc ± 0,3Vdc		
Sleep mode consumption	<5W				
Bypass	10A	20A	30A	40A	40A
Load Current	30A	35A	50A	35A	45A
AC Load	The load current can be set (5A UP/DOWN)				
Protections					
Overload	AC output shutdown and manual restart				
Shortcircuit	AC output shutdown and manual restart				
Over heating	60 ± 5°C				
Inverse DC connection	External fuse or breaker				
External Specifications					
Communication	RS485				
Battery Types	Gel/ Lead Acid / Lithium / Calcium / Sulfate / AGM				
Dry Contact	Relay				
General Specifications					
Operation Temperature Range	-20°C to 60°C				
Operation Humidity	20% to 90%				
Storage Temperature	-40°C to 70°C				
Refrigeration	Automatic Fans				
Noise	<50dB				
Display	LCD + LED				
Dimensions (WxTxH) mm	399x222x178mm		422x222x210mm		574x345x197 mm
Weight	14,7kg	17,5kg	19kg	30kg	32kg
Certificates	CE, RoHS, FCC				