

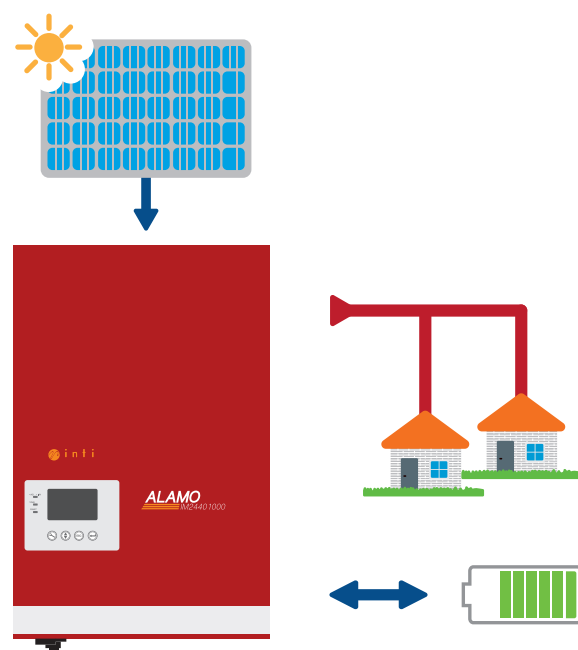
MULTIFUNCTIONAL INVERTER

ALAMO SERIE

MULTIFUNCTIONAL INVERTER

IM-48603000 / IM-48602000 / IM-24401000

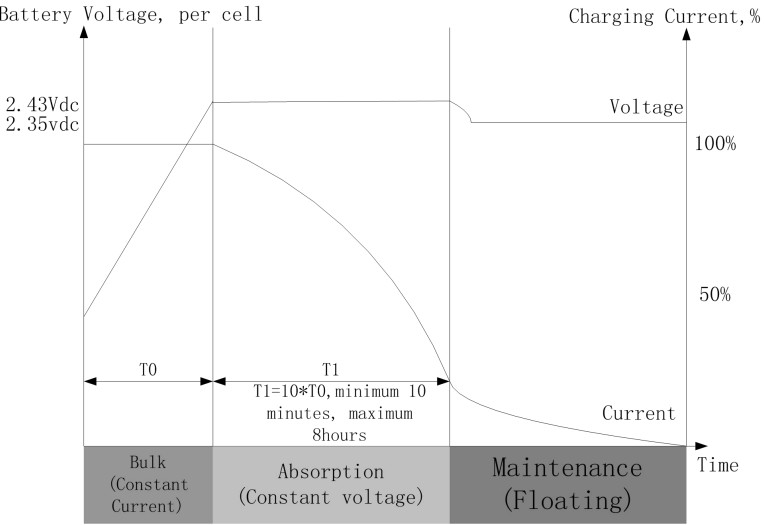
The Alamo Multifunctional Inverter is a pure wave hybrid system that combines the functions of inverter, solar charger and AC charger, and provides a long operating time in uninterrupted power supply. Its user-friendly LCD display provides information on system status and allows configuration of certain parameters.



Features

- High frequency technology in a compact and lightweight size.
- Pure wave output for a wide range of applications and harsh environments.
- Built-in solar charger with PWM/MPPT technologies to optimize power generation.
- High efficiency DC-AC conversion minimizing power losses.
- Stand-by charging mode allows battery charging even when the unit is off.
- Intelligent fan control for cooling.
- Isolated input/output design for maximum safety in the operation of the equipment.
- LCD display with easy-to-decipher operation status.
- Configurable AC voltage range and priority for AC input or PV input.
- Applicable in residential use, office equipment, lighting, motors such as fans, air conditioner, washing machines, among others.
- Rigorous protections: low input voltage, overload, short circuit, low battery alarm, over input voltage, over temperature.
- Flexible wall or rack mounting.

	IM-24401000	IM-48602000	IM-48603000
Rated capacity	1KVA / 0,8KW – 24VDC – 40A MPPT	2KVA / 1,6KW – 48VDC – 60A MPPT	3KVA / 2,4KW – 48VDC – 60A MPPT
input AC			
Input waveform	Sine wave	Sine wave	Sine wave
AC input rated voltage	110VAC / 220VAC	110VAC / 220VAC	110VAC / 220VAC
Low voltaage Losses	90VAC / 200VAC ± 7V	80VAC / 200VAC ± 5V	80VAC / 200VAC ± 5V
High voltage losses	140VAC / 240VAC ± 7V	150VAC / 250VAC ± 5V	150VAC / 250VAC ± 5V
Maximun AC input voltage	150VAC / 250VAC	150VAC / 250VAC	150VAC / 250VAC
Rated frequency	60Hz / 50Hz	60Hz / 50Hz	60Hz / 50Hz
Low frequency losses	54Hz / 44Hz ± 1Hz	54Hz / 44Hz ± 1Hz	54Hz / 44Hz ± 1Hz
High frequency losses	66Hz / 56Hz ± 1Hz	66Hz / 56Hz ± 1Hz	66Hz / 56Hz ± 1Hz
OUTPUT			
Short-circuit protection	Breaker	Fuse	Breaker
Efficiency	>95% (Battery fully charged)	>95% (bately fully charged)	>95% (battery fully charged)
Transfer time	10ms normally(UPS); 20ms normally(residential)	10ms normally (UPS); 20ms normally (residential)	10ms normally (UPS); 20ms normally (residential)
INVERTER MODE			
Rated output power	1KVA / 0,8KW	2 KVA / 1,6KW	3 KVA / 2,4KW
Output voltage waveform	Pure sine wave	Pure sine wave	Pure sine wave
Output voltaje regulation	110VAC / 220VAC ± 5%	110VAC / 220VAC ± 5%	110VAC / 220VAC ± 5%
Output frequency	60Hz / 50Hz	60Hz / 50Hz	60Hz / 50Hz
Peak efficiency	88%	93%	90%
Overload protection	5s@>150% of load; 10s @ 110% - 150% of load	5s@>150% of load; 10s @ 110% - 150% of load	5s@>150% of load; 10s @ 110% - 150% of load
Number of peaks	2 times rated power for 5 seconds	2 times rated power for 5 seconds	2 times rated power for 5 seconds
Rated DC input	24VDC	48VDC	48VDC
Start-up voltage	23VDC	46VDC	46VDC
Low DC voltage alarm	23VDC	44VDC	44VDC
@ load > 50%	22VDC	42,8VDC	42,8VDC
DC low voltage cut-off	21VDC	42VDC	42VDC
@ load > 50%	20VDC	40,8VDC	40,8VDC
DC high voltage cut-off	30VDC	62VDC	62VDC
No load consumption	<25w	<25w	<25w
LOADING MODE			
Loading algorithm	3 stages	3 stages	3 stages
Maximum AC loac current	20A	20A	30A

intiphotovoltaics		IM-24401000	IM-48602000	IM-48603000
Bulk loading voltage @ open batteries	29,2VDC	58,4VDC	58,4VDC	
@AGM & Gel batteries	28,2VDC	56,4VDC	56,4VDC	
Float charging voltage	27,4VDC	54VDC	54VDC	
Charging curve				
Solar charging mode				
Charging current	40A	60A	60A	
PV array voltage range	30VDC – 75VDC	60VDC – 145VDC	60VDC – 145VDC	
Open circuit maximum voltage	75VDC	145VDC	145VDC	
GENERAL SPECIFICATIONS				
Safety certification	CE	CE	CE	
Operation temperature range	-10°C a 50°C	-10°C to 50°C	-10°C to 50°C	
storage temperature range	-15°C a 60°C	-15°C to 60°C	-15°C to 60°C	
Dimensione (W * H * D) mm	105 * 288 * 345	105 * 317 * 486	105 * 317 * 486	
Net weight kg	6,6	11,6	11,6	

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