



ReplusTM

by ReneSola



GLOBAL SOLAR (PVT.) LTD
Let there be light



Features

- Pure sine wave inverter
- Built in 60A MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC recovers
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 6 units available for 5KVA model

INTRODUCTION

This is a multifunction inverter/charger that combines the functions of an inverter, battery charger and MPPT solar charger in a single compact unit that offers uninterruptable power. The comprehensive LCD display offers user-configurable and easy-accessible button operation and displays the values of battery charging current, AC/Solar charger priority and many other parameters.

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Technical Data	Replus SineON IM3KVA-48-V	Replus SineON IM5KVA-48-V
Rated Output Power	3000VA	5000VA
PV Input (DC)		
Max. DC Power	3000 W	
Maximum Array Input Current	50 A	
PV Maximum DC Voltage	145 Voc	
MPPT Voltage Range	60 – 115 Vdc	
Number of PV Connection Inputs	1	
Number of MPPT Controllers	1	
Input voltage (AC)		
Nominal Input Voltage	230 Vac	
Input Voltage Range (Selectable)	90 – 280 Vac (For Appliance Mode) 170 – 280 Vac (For UPS Mode)	
Input Frequency Range	40 ~ 65 Hz	
Grid Connection	Single phase	
Output (AC)		
Nominal Output Voltage	230 Vac ±5%	
Output Frequency (Selectable)	50 / 60 Hz	
Output Waveform	Pure Sinewave	
Continuous Output Power (P _{nom})	3000 VA / 2400 W	5000 VA / 4000 W
Peak Power	5 seconds @ 1.5 x P _{nom} ; 10 seconds @ 1.1~1.5 x P _{nom}	
Surge Power	2 x P _{nom} for 5 seconds	
Transfer time (Selectable)	10 ms (UPS Mode) 20 ms (Appliance Mode)	
Grid Connection	Single phase	
Parallel Connection	Not Available	Up to 6 units (1-Phase or 3-Phase)
Battery and Charger		
Battery Type	Lead-acid (Vented, AGM, GEL)	
Nominal DC Voltage	48 Vdc	
DC Voltage Range	38.4 ~ 62 Vdc	38.4 ~ 60 Vdc
Charging Range Solar	60 A	60 A
Charging Range Grid	10/15 A (Selectable)	2/10/20/30/40/50/60 A (Selectable)
Maximum Charge Current	60 A (60 A Solar or 15 A Grid)	120 A (60 A Solar + 60 A Grid)
Charging Curve	3 stage	
Efficiency		
Line mode	>95% (Rated R load, battery fully charged)	
MPPT Charger	98%	
Output	90 ~ 93%	
No load power consumption	< 25 W	< 50 W
Saving mode power consumption	< 10 W	< 15 W
Standby power consumption (Solar Charger)	2 W	
Protection		
Output Short Circuit Protection	Line mode: Circuit Breaker (Not Supplied) Battery mode: Electronic Circuit	
Input Short Circuit Protection	Circuit Breaker (Not Supplied)	
Certifications & Standards		
Safety	CE	
General Data		
Dimensions (WxHxD)	295 x 479 x 140 mm	295 x 468 x 120 mm
Weight	11.5 kg	11 kg
Mounting	Wall Mount	
Operating Temperature	0~55°C	
Relative Humidity	5~95% (Non condensing)	
Topology	Transformerless	
Cooling	Fan cooled	
Display	LCD Display	
Communication	USB; Remote Panel (Optional)	RS-232/USB; Remote Panel (Optional)
Dry contact	1 x 3 A/250 Vac	
Standard Warranty	2 Years	

For More Information, Please Contact:

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