Insele Solar

Inverter Systems

1KVA, 3KVA & 5KVA AC or Solar

Tough, reliable and affordable the Insele Solar inverters are ideal for battery backup and off-grid solar, home and office solutions.

Transformerless design provides reliable power conversion in a compact size with high efficiency. Aluminium housing and integrated interface system, these units are light and handy making installation easy and effortless.





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Inverter Specifications

Model	1KVA 800W Inverter	3KVA 2400W Inverter	5KVA 4000W Inverter
Rate Power	1000VA/800W	3000VA/2400W	5000VA/4000W
Input			
Voltage	230 VAC		
Selectable Voltage Range	170 - 280 VAC (For Personal Computers) 90 - 280 VAC (For Home Appliances)		
Frequency	50Hz	50Hz/ 60Hz (Auto Sensing)	
Output			
AC Voltage Regulation (Battery Mode)	230 VAC ± 5%		
Surge Power	2000VA	6000VA	10000VA
Efficiency Peak	90%	93%	93%
Transfer Time	10ms (For Personal Computers) 20ms (For Home Appliances)		
Waveform	Pure Sine Wave		
Parallel Operation	N/A	N/A	Up to 9 Units
Battery & AC Charger			
Battery Voltage	12VDC	24VDC	48VDC
Floating Charge Voltage	14.1VDC	27VDC	54VDC
Overcharge Protection	15.5VDC	31VDC	60VDC
Maximum Charge Current	10A or 20A	20A or 30A	60A
Solar Charger			
Solar Charge Controller Type	PWM		MPPT
Charging Current	50A		80A
Maximum PV Array Open Circuit Voltage	40VDC	80VDC	145VDC
Maximum PV Array Power	600W	1200W	4000W
MPPT Range @ Operation Voltage	N/A		60VDC ~ 115VDC
Standby Power Consumption	1W	2W	2W
Physical			
Dimensions, D x W x H (mm)	95 x 240 x 316	305 x 272 x 100	140 x 295 x 540
Nett Weight (Kgs)	5	6.9	13.5
Operating Environment			
Humidity	5% - 95% Relative Humidity		
Operating Temperature	0°C - 55°C		
Storage Temperature	-15°C - 60°C		

Batteries

We offer Lithium batteries, our 12.8V 100Ah have an estimated lifespan of 5 - 10 years and 5 year warranty.