

# micromax

revolutionary energy solutions

## energy

# Off Grid Solar Inverter



Batteries Charged through Solar

Source for Free Power Backup

Save Energy Costs

### Features

- No load shutdown
- Temperature compensation
- Faster charge overtime
- High efficiency
- User configurable parameters
- Intelligent charge sharing
- Built in MPPT solar charge controller
- Different working modes
- Production with fuses / MCB and MOV's
- Computer interface (optional)
- LCD display with energy meter and data logging (optional)

### Applications

- Residential Buildings
- Offices/Shops

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Technical Specifications													
Parameters	Units	Ratings											
System Rating	KVA	1	1	2	1	2	3.5	5	5.5	7.5	8	10	
Operating DC Voltage	V	12	24	24	48	48	48	48	72	96	120	180	
Photovoltaic Input MPPT													
Input Voltage Range(Min-Max)	VDC	36-90			72-180				144-360		180-450	270-450	
Maximum PV Power Recommended	KW	1	1	2	1	2	3.5	5	5	7.5	8	10	
Photovoltaic Input PWM													
Input Voltage Range(Min-Max)	VDC	18	36	36	72	72	72	72	108	144	180	270	
Maximum PV Power Recommended	KW	1	1	2	1	2	3.5	5.5	5.5	7.5	8	10	
PWM/MPPT Based Charge Controller													
Switching Element		MOSFET/IGBT											
Controller		DSP											
Type of Charger		PWM with MPPT											
Efficiency	%	Upto 95%											
Configurable Parameter													
Battery Low Buzzer	V	Batt Low Cut + 0.2V											
Battery Low Cut	V	10-11.2 (per battery)											
Battery High Cut	V	15.0-16.0 (per battery)											
Battery Charging Voltage by SPV	V	10.5-14.5 (per battery)											
Battery Charging Current by SPV	A	Upto 40A											
Battery Charging Voltage by Grid	V	10.5-14.5 (per battery)											
Battery Charging Current by Grid	A	5-15A											
Grid Low Cut Voltage (IT Mode/Normal)	V	180-190/100-110											
Grid High Cut Voltage (IT Mode/Normal)	V	250-260/280-290											
Grid Charging		Enable/Disable											
IT Load		Enable/Disable											
Operating Mode		Smart/PCU/Hybrid											
Changeover Time (Mains-Batt, Batt-Mains)		<10ms											
Output Voltage Low	V	170-190											
Output Voltage High	V	250-260											
No Load Shut Down		Enable/Disable											
Battery													
Grid Disconnect(Solar Available)		@14.5/Battery for 2 minutes OR 13.5/Battery-100% Current											
Grid Connect (PCU Mode/Smart Mode)	V	11-12V											
Temp.Compensation		@ 3mV/cell; 18mV/battery											
Environment													
Operating Temperature	C	0 - 50											
Max Relative Humidity @25°C(Non Condensing)	%	95											
Standard Compliance		IP21 (optional)											
Data Logging	C	30 days data storage (Optimal)											