

Specifications (SUNMAGIC + | Three Phase | 5kVA - 600kVA)

STANDARD SPECIFICATION		SUNMAGIC+ 5kVA to 300kVA																														
INVERTER CAPACITY (kVA)	5		10		15		20		25		30		40		50		60		80		100		120		150		200		250		300	
INPUT																																
Input Voltage Range *	360 VAC to 450 VAC																															
Nominal Frequency	50 Hz (± 6%)																															
Input Fault Level	10 kA																															
Self-Consumption	upto 4%																															
DG / Grid Compatibility	Yes																															
SOLAR																																
Charger Type	MPPT																															
Max PV Voltage (VOC)	250V	300V	500V	500V	500V	500V/700V	700V	900V	1200V	1200V																						
MPPT Voltage Range	120-180V	160-250V	300-450V for 240VDC / 450-600V for 360VDC														800-1100V															
MPPT Modes Available	4 (Selectable)																															
No. of MPPT Channel													3 / 2	3 / 2	3 / 2	3	3	3														
Max I/P Amps per Channel (Amps)	52	83	125	83	104	125/83	166/111	208/138	250/166	333/222	138/92	166/111	138	104	104	125																
Panel Reverse Protection	Yes																															
Solar Charger Efficiency	upto 95%																															
BATTERY																																
Nominal Battery Voltage (VDC)	96	120	120	240	240	240/360	240/360	240/360	240/360	240/360	240/360	240/360	240/360	360	480	600	600															
Grid Charging Current	Selectable as 5A Steps																															
Input Power Factor (Grid Charging)	Near to Unity																															
Battery Charging Voltage	Selectable From LCD Display																															
Type & No. of Cells	Lead Acid / VRLA / Ni-Cd / Lithium																															
OUTPUT																																
Load Power Factor	0.8 lag																															
Output Voltage (Inverter Mode)	415V AC																															
Voltage Regulation	± 2%																															
Output Frequency (Free Running)	50 Hz ± 0.5%																															
Output Waveform	Pure Sine Wave																															
Peak Inverter Efficiency (Full Load)	upto 90%																															
Total Harmonic Distortion	≤ 3% at Liner Load																															
Overload Capacity	125% for 60 Sec, 150% for 5 Sec																															
Changeover Time (Full Load)	20 msec																															
DC to AC Osolation	In Built isolation Transformer at Inverter Output																															
Anti Islanding Function	Available in Compliance with IEC 62116																															
Duty	Continuous																															
CONFIGURATION																																
Modes Available	Hybrid, Grid Export, Standalone																															
Battery Buffer Setting	Selectable for 25%, 50%, 75%																															
GRID Feed Mode	Enable / Disable Option Available																															
ENVIRONMENTAL																																
Acoustic Noise Level From 1m distance (Ref : ISO 3746)	≤ 65 dB																															
Operating Temperature	0 to 40 Deg C Dust free, Cool & Dry Environment																															
Storage Temperature	-10 Deg C to 60 Deg C																															
Relative Humidity	Up to 95% (non condensing)																															
Altitude	Upto 1000 & (1000 to 3000) **																															
Basic Seismic Qualification	0.5g (the test inspection shall be with extra cost)																															
PHYSICAL																																
Enclosure Protection Grade	IP 20 (IP 21 to IP 55 Optional)																															
Enclosure Thickness	Frame 2.0mm & all covers 1.6mm																															
Cooling	Forced Air																															
Colour	RAL 7016 RAL 9016																															
Cable Entry	Back Side	Bottom / Front																														

* with tolerance of 5v

** 1.6 % derating per 100 m

Parameters Displayed on LCD MIMIC	General Group	Input Group	Output Group	Battery Group	Solar Group											
	1. System Rating	1. Input Voltage	1. Output Voltage	1. Battery Voltage	1. Solar Voltage											
	2. Date & Time	2. Input Current	2. Output Current	2. Charging Current	2. Solar Current											
	3. Current Status	3. Input Frequency	3. Output Frequency	3. Discharging Current	3. Solar Power (kW)											
	4. Configuration	4. kW	4. kW	4. Battery Status	4. Solar Energy (kWh)											
	5. Fault Log	5. KVA	5. KVA													
Recent 9 Fault Log Since Last Reset	Fault Log	DG Group	Power Group	Inverter Group	Configuration Group											
	1. DG Power (kW)	1. Total Input (kW)	1. Voltage	1. SGB												
	2. Power (KVA)	2. Total Output (kW)	2. Current	2. SGB												
	3. Energy (kWh)	3. Input PF	3. Frequency	3. GSB												
		4. Output PF	4. Power (kW)	4. GFM												
			5. Power (KVA)	5. INVERTER												
Indications on MIMIC	Fault	PV ON	Inverter ON	Load on Battery												
		Grid ON	Charger ON													
		Load on Mains														
* Flashing LED Indicates fault condition in respective group *																
Message Displayed on LCD			Output Under Voltage	Battery Low Voltage												
			Output Over Current	Battery Over Voltage												
			Output Overload													
			Short-Circuit													
			Stand By Mode													
Reset	Buzzer Reset (Manual)		Overload	Battery Low												
			Short Circuit													
PROTECTIONS	* Alarms are provided for all important protections.															
	1. Input MCCB	1. Output Under Voltage	1. Battery MCCB	1. Solar MCCB												
	2. Input Under Voltage	2. Output Over Voltage	2. Battery Low	2. Solar Fuse												
	3. Input Over Voltage	3. Output Overload	3. Battery Over Voltage	3. MOV Card												
	4. Charger Over Voltage	4. Output Short Circuit	4. Battery Charging Current Limit													
	5. MOV Card	5. Inverter Over Temperature														
CONNECTIVITY																
Communication	RS 232, (Modbus RS 485, GSM Connectivity) - Optional															
Monitoring	ENERLOG (Remote Monitoring Solution) - Optional															
PFCs																
	Grid Trip															
	Inverter Trip															
	Load on Battery															
	Battery Low Prealarm															
	Load on Static Bypass															
	Common Fault															
	One Relay Contact for Each (Rating : (1A/ 230 VAC or 2A / 12V DC)															
Testing Standard	IEC - 61683 : 1999, IEC - 60068-2-1, IEC - 60068-2-2, IEC - 60068-2-14, IEC - 60068-2-30- As per MNRE Requirement															
Safety Factor	1 for Electronic Devices, 1 for Electrical															
Earthing Connection	25- 40 kVA : 3 x 25 mm GI (Earth bus bar running along the panel)															
(Ref. is 3043)	45- 150 kVA : 6 x 50 mm GI (Earth bus bar running along the panel)															
	200- 300 kVA : 6 x 50 mm GI (Earth bus bar running along the panel)															
Illumination Lamp	11 W CFL															
Gland Plate	3 mm MS C.R.C.A															
Utility Socket	5A / 230 VAC															
DIMENSIONS (STANDARD/OPTIONAL)																
Dimensions (in mm)	(Approx.)															
KVA Rating	5	10	15	20	25	30	40	50	60	80	100	125	150	200	250	300
Width (W)	380	450	450	450	450	450	450	800	800	1100	1100	1100	1565	3315	3315	3315
Depth (D)	580	800	800	800	800	900	900	950	950	800	800	800	850	850	850	850
Height (H)	520	800	800	800	800	800	800	1700	1700	1800	1900	1900	1900	1900	1900	1900
Weight (Kg)	84	175	200	296	320	350	390	1120	1120	1184	1480	1150	1500	1200	1200	1300

Specifications are subject to change without prior notice

Application of Solar Hybrid Inverter



Petrol Pump



AC Unit



Cold Storage



ATM



Farm House



Rural Bank



Government Offices



Primary Health Care Center



Hostel of School & College



Microgrid



Factory & Dairy Equipment



Water Pump



Lift In Society



Railway Platform



Solar Farming Centre



Enertech® Highly Reliable And Efficient Products are Backed by A Highly Responsive and Dependable Field and Factory Services

Your business runs around the clock, and so does Enertech. With 24x7 technical support coverage, including weekends and holidays, The Technical Support team at Enertech is dedicated to protecting your investments

With factory trained engineers positioned throughout the India, rapid response times can significantly reduce downtime and loss of revenue.

Highly skilled Technical Support representatives are available to troubleshoot by phone and, If necessary, Can dispatch the expert Service engineer to your site.



50+ Service
Personnel Pan-India



Pan-India
Spare Parts Operations



Wide Repair
Network

SERVICES

- ◆ Start-up / Installation
- ◆ Factory and On-site Testing
- ◆ Preventive Maintenance
- ◆ Extended Warranty

Please call for
Technical Support

+91 9372623418

ENERTECH UPS PVT. LTD.

S. No. 399/1-2, Bhare, P. O. Ghotawade,
Near Pirangut, Taluka- Mulshi
Dist.- Pune - 412115

Domestic and International Presence
7 x 24 x 365 Customer Service Support

Contact

Mob. : +91 9370659050, +91 9372623423
Web. : www.enertechups.com
Mail : sales@enertechups.com

EnerTech
Answering All Power Needs

Our Offering

Online UPS, Static Frequency Converter,
Solar UPS, Industrial Battery Charger



Follow Us On    