



SOLAR POWER FOR HOMES



High Performance Digital Signal Processing
Improved Configurability & Communication



Intelligent Charge Management
Improves Battery Charge/Discharge Cycle



Maximum Power Point Tracking Algorithm
Ensures Maximum Yield from available Solar Energy



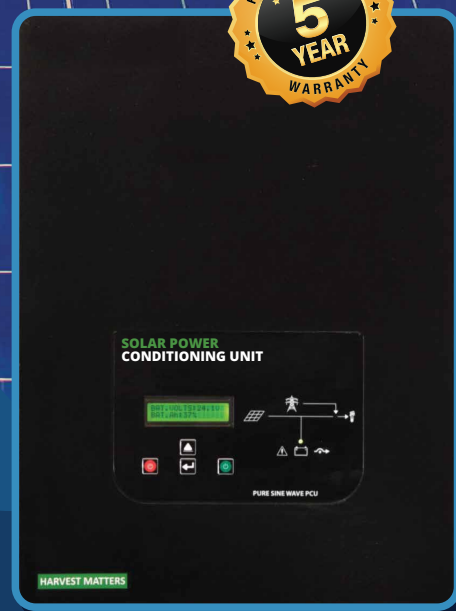
Front Panel User Configurable Options
More Flexibility and Customizable



Automatic Voltage Regulation in Grid Mode
Safe Guards your Sensitive Appliances



Simple Plug & Play Operation
Space Saving Wall-Mount Design



*Standard 3 Years + Extended 2 Years



GB Energy solutions
WE SOLVE IT

SOLAR POWER CONDITIONING UNIT

PARAMETERS	1 KW - 24 V	1 KW - 48 V	2 KW - 48 V	3 KVA - 48 V
PV Capacity	1000 W		2000 W	3000 W
Nominal Battery Voltage (Vdc)	24 V	48 V		
Power Rating	1 KW		2 KW	3 KVA
Nominal Output	230 VAC / 50 Hz			

ELECTRICAL

Solar

Charger Technology	MPPT (Maximum Power Point Tracking)			
PV Charge Controller Rating	1 KWp		2 KWp	2.5 KWp
Absolute Max Voc	50 Vdc	90 Vdc		
Max Charging Current	40 A	20 A	40 A	
MPPT Tracking Efficiency	>99%			
Charging Modes	3 Modes (Bulk, Absorption, Float)			
Battery Type Selection	Using front keys : Tubular / SMF			

Grid

Input Voltage Range	145 VAC - 275 VAC			
Input Frequency Range	42 - 58 Hz			
Frequency (Typical)	50 Hz			
Battery Charging Current From Mains	Up to 20 A			
Change Over Time (Mains to Inverter)	<12 ms			

Inverter

Output Voltage	230 VAC			
Frequency	50 HA ± 0.5 Hz			
Output Wave Form	Pure Sine Wave			
Output Power Factor	0.8 lag to unity			0.8 lag
Peak Efficiency	>85%			
Surge Capacity	200% of the rated capacity for 0.5 sec			
Self Consumption	26 W	45 W		

MECHANICAL

Ingress Protection	IP 21			
Dimension (L X W X D) mm	462 X 352 X 150			
Weight (approx.)	19 Kgs	22 Kgs	29 Kgs	29 Kgs
Recommended Mounting	Wall Mount			

OPERATIONAL PARAMETERS

Operating Temperature	0° C to 50° C			
Acoustic Noise	<50 dB			
Relative Humidity Range	5% to 95% (Non condensing)			
Operating Environment	Indoor / Protected			

EXTERNAL ACCESSORIES

Communication Interface (Optional)	Modbus RTU / SCOM-USB			
------------------------------------	-----------------------	--	--	--

REGULATIONS AND DIRECTIVES

Compliance	IEC61683, IEC 60068-2 (1,2,14,30), MNRE compliant			
------------	---	--	--	--

Note: Specifications are subject to change without prior notice.