



# PURE SINE WAVE SOLAR HYBRID UPS



## EXIDE PURE SINE WAVE SOLAR HYBRID UPS

The New Generation Solar Hybrid UPS ranges are Advance Microcontroller based technology with high quality MOSFET that provides Pure Sine Wave Output like Grid Power. These are designed with advanced software to ensure intelligent charging profile selection for minimum utilization of mains supply ensuring high Solar charging efficiency. The Solar Inverters has large digital LCD display for easy operation and ensure protection against short circuits and overload



### FEATURES:

- ⚡ Pure Sine Wave Output Wave Shape same as Grid Power
- ⚡ More Reliable with SMT Technology of SMD Components
- ⚡ Higher Efficiency ( $\geq 95\%$ ) In-built Solar Charge Controller\*
- ⚡ Mains Power Saving
- ⚡ Attractive Big Size LCD Display with Tri-Color Backlights
  - Light Color Backlight - Back-up Operation
  - Bright Color Backlight - Mains Operation
  - Red Color Backlight - Any Protection
- ⚡ PV Reverse Protection In-built
- ⚡ Reverse Current Flow Protection (Battery to Solar Panel specially in nights) In-built
- ⚡ Fast Charging Technique through Mains & Solar Power under ASIC Charging Algorithm
- ⚡ Wide Mains Voltage Input Range for Battery Charging i.e. 90V – 300V in Normal Mode for  $\leq$  Solar 2200 and 100V - 280V for  $>$  Solar 2200
- ⚡ Compact in Size
- ⚡ Noiseless Operation
- ⚡ Mains Input Voltage Low Charging Facility i.e. 10~12Amp Charging at 120V Mains Input\*
- ⚡ Easy to Service and Installation Operation
- ⚡ Eco Friendly
- ⚡ Better User Interface



### APPLICATION:

- ⚡ Solar Lighting
- ⚡ SPV Power Plant
- ⚡ Off-Grid Roof-Top



Model	700	900	1100	1500	2200	2500	3000	3500	5200	5.2KVA	7.5KVA	10KVA	10KVA
	Back-up Mode												
Output Wave Shape	Pure Sine Wave												
Nominal Battery Voltage	12V	12V	12V	-	-	-	-	-	-				
	-	-	-	24V	24V	-	-	-	-				
	-	-	-	-	-	36V	-	-	-				
	-	-	-	-	-	48V	48V	48V	48V	96V	120V	120V	180V
No Load Output Voltage @ Nominal Battery Voltage	220V ± 7V												
Output Frequency	50Hz ± 1Hz												
Maximum No Load Battery Current	≤ 2.2Amp						<2.0Amp						
Total Harmonic Distortion (THD) @ Leaner Load	< 3%												
Battery Low Pre Alarm	10.8V ± 0.2V per battery												
	Mains Mode												
Maximum Charging Current (HC) ± 1A	15A	17A	18A	17A	20A	15A	15A	15A	22A	17A	20A	18A	18A
Maximum Charging Current (NC) ± 1A	11A	12A	13A	12A	14A	12A	12A	12A	18A	12A	16A	14A	14A
Battery Boost Charging Voltage	14.4V ± 0.2V per battery												
Battery Float Charging Voltage	13.7V ± 0.2V per battery												
	Normal Mode												
Mains Input Voltage Range	90V to 300V ± 10V						100V to 280V ± 10V						
Change Over Time (Mains to Back-up)	< 40 msec												
Change Over Time (Back-up to Mains)	< 10 msec												
	UPS Mode												
Mains Input Voltage Range	180V to 260V ± 10V												
Change Over Time (Back-up to Mains)	< 10 msec												
Change Over Time (Back-up to Mains)	< 10 msec												

	Solar Mode												
Model	700	900	1100	1500	2200	2500	3000	3500	5200	5.2KVA	7.5KVA	10KVA	10KVA
Rating of Solar Charge Controller	30A 12V	30A 12V	30A 12V	30A 24V	50A 24V	50A 36V	50A 48V	50A 48V	50A 48V	50A 96V	50A 120V	70A 120V	50A 180V
Maximum Charging by Solar	30A ± 5A				50A ± 5A							70A ± 5A	50A ± 5A
Efficiency of Solar Charge Controller	≥95%												
Charge Sharing Option	Built-in												
Type of Solar Charge Controller	True Hybrid												
	Protection												
Overload Retry	6 Times Auto Retries												
Battery Low Retry	4 Times Auto Retries												
Short Circuit Retry	Available												
Protection	Short Circuit Trip, Overload Trip, Battery Low & Over Charge Protection, Over Temperature Protection, AC Fuse Trip/ MCB Trip Protection, PV Reverse, Reverse Current Flow etc.												
	Display												
Display	Mains Input Voltage, Battery Voltage, Applied Load in Percentage, Battery Charging/Charged Status, Battery Low/ Over Charge Protection, Short Circuit Protection, Overload Protection, Over Temperature Protection, AC Fuse Blown/ AC MCB Trip Protection as Fuse Trip, PV Reverse Protection, Availability of Solar Power, Non Availability of Solar Power etc.												
	Environmental Parameters												
Operating Temperature	0 - 45 °C												
Acoustic Noise at 1Mtr.	< 45 dB												
Relative Humidity Thermal Management	Maximum 95% Non - Condensing Integrated Cooling System through Fan & Heat Sink												
	Switch Details												
ON/ OFF Switch	LED Glow Indicates UPS is Delivering Power.												
MODE Switch	LED Glow Indicates activation of UPS Mode.												
Charging HC/ NC Switch	LED Glow Indicates activation of High Charging Mode.												
Hybrid Switch*	LED Glow Signs Inverter to Cut - off mains input as Battery is Fully Charged.												
* Should be Switch ON													

# EXIDE

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