



**BINA
DIESEL KA
GENERATOR**

JUMBO UPS
HIGH CAPACITY SERIES

STATIC UPS
WITH LCD DISPLAY
& INBUILT TDR



Air Conditioner



Computer & IT



Water Motor



Petrol Pump



Shopping Mall



Photocopier

TECHNICAL SPECIFICATIONS	MODELS WITH SWITCHING DEVICE: IGBT Modules 600V/200A		
MODEL UPS	JM SW 6500i	JM SW 9000i	JM SW 11000i
Capacity / Rating	5.5KVA/4400W	8KVA/6400W	10KVA/8000W
Output Waveform / Power Factor	PURE SINEWAVE / 0.8		
Nominal Battery Voltage	96V DC	120V DC	180V DC
Output Freq. / Output Voltage (Batt. Mode)	50Hz±0.5Hz / 220V(±10V)	50Hz±0.5Hz / 230V(±10V)	50Hz±0.5Hz / 230V(±10V)
Efficiency (Battery Mode)	>82%		
Maximum Charging Current	16A(± 2A) Default. Settable down to 5A via Resistor Change on Control Board		
Recommended Battery Type / Battery AH	Tall-Tubular / Flat-Plate Lead Acid Batteries / (100AH-180AH)**		
Wide Input Voltage Range (Inverter Mode)	100V~280V		
Narrow Input Voltage Range (UPS Mode)	185V~260V		
Transfer Time from Mains to Batt. (UPS Mode)	< 10ms		
Transfer Switch Mechanism	SCR-SCR Module (Semiconductor device)		
Manual / Maintenance Bypass	Available through Rotary Switch on the Back Panel		
Total Harmonic Distortion (Resistive Load)	Less than 3%		
Overload Handling Capacity / Short Circuit	105%~125% (4 Times Auto-Reset) / 300%		
Seperate O/P with TDR / Charger Control	Available with 1-Min. TDR (For Air-Conditioner Type Loads) / Advanced Battery Management		
AC Input Voltage Range / Power Factor	106V~280V / 0.85 to Unity		
Protections / Display	Low Battery Shutdown, Battery Overcharge, Overload & Short Circuit / LCD + LED		
Environmental Parameters	Operating Temperature: 0~45°C / Acoustic Noise at 1 Mtr.: <60dB Relative Humidity: Max. 95% non-condensing. Thermal Management: Integrated Cooling (Fan & Heat Sink)		
Dimensions (LxWxH) mm / Gross Weight	600x345x665 (92.31Kgs)	600x345x665 (109.5Kgs)	600x345x665 (140Kgs)
Recommended Load Applications: Multiple type Lights & Fans (in Residences, Malls, Hotels, Farm-houses, Hospitals, Banks etc), Computers (Without any in-rush current carrying Loads at product output), Refrigerators, Air Conditioners* 1.5-TON / 2-TON, Desert Cooler, Photo copier Machine, Laser jet Printers, Petrol Pump Nozzles : (2-in JM SW 6500i, 3~4-in JM SW 9000i, 5~6-in JM SW 11000i), Submersible Water-Motors, Appliances in Railway Coaches with JM SW 6500i Model with 110VDC bank of Railway Coach.			

* O-General make Air-Conditioners are Exception, Need to Check Start-up Current of this AC carefully before recommending with UPS JM SW 6500i, this can be recommended with UPS JM SW 9000i or 11000i models.
** VRLA/SMF Type batteries Generally Not Recommended with these models, but if Need to Use VRLA/SMF batteries, Kindly Remember to Remove (Open) 2-Pin JUMPER from Control Board of the Products, in order to reduce the Boost Charge Voltage Level (14.4/14.5V DC per Battery) upto the acceptable Limit of VRLA/SMF batteries i.e 14.1V DC per Battery.

TECHNICAL SPECIFICATIONS	MODELS WITH SWITCHING DEVICE: MOSFETS									
MODEL UPS JM SW	2500+	2750+	3000+	3500+	3750+	4500+	4000+	5500+	6000+	8000+
Capacity (KVA) / Rating (W)	2 / 1600	2.2 / 1760	2.5 / 2000	2.8 / 2240	3.2 / 2560	4 / 3200	3.7 / 2960	5.2 / 4160	5.7 / 4560	7 / 5600
Output Waveform / Power Factor	PURE SINEWAVE / 0.8									
Nominal Battery Voltage	24V DC	24V DC	24V DC	24V DC	36V DC	36V DC	48V DC	48V DC	72V DC	72V DC
Battery Charger	Boost based PWM controlled multistage ATM (Automatic Trickle Mode) Charging									
Recommended Battery Type / Battery AH	Tall-Tubular / Flat-Plate Lead Acid Batteries / (80AH-200AH)**									
Output Freq. / Voltage (Batt. Mode)	50Hz±0.2Hz / 180~230V(±10V)									
Maximum Charging Current	17A(±2A) Default. Settable down to 5A via Switch Selection									
Std. I/P Vol. Range (Inv. Mode) (±10V)	80~290V	100~270V								
Narrow I/P Vol. Range (UPS Mode) (±10V)	180~265V	180~260V								
Transfer Time-Mains to Batt. (UPS Mode)	≤ 10ms									
Input Brown Out Voltage (±10V)	100V									
Mains Bypass / Switch-Over	Rocker Bypass Switch Automatic from Mains to Backup and Backup To Mains									
Seperate O/P with TDR	NA	Available with 1-Min. TDR (For Air-Conditioner Type Loads)								
UPS Overload / Short Circuit Protection	≥110% / ≥300%									
Efficiency (Battery Mode)	>80%	>74%	>71%	>71%	>76%	>75%	>78%	>78%	>83%	>80%
Protections / Display	Low Batt. Voltage, Batt. Overcharge/Reverse Polarity, Over Temp., Smart Overload Sense & Short Circuit / LCD + LED									
Environmental Parameters	Operating Temperature: 0~45°C / Acoustic Noise at 1 Mtr.: <60dB Relative Humidity: Max.95% non-condensing. Thermal Management: Integrated Cooling (Fan & Heat Sink)									
Dimensions (LxWxH) mm	445x320x460	514x339x460								
Gross Weight	19.93Kgs.	23.80Kgs.	23.76Kgs.	23.93Kgs.	27.19Kgs.	27.52Kgs.	28.87Kgs.	34.90Kgs.	37.30Kgs.	37.30Kgs.
Recommended Load Applications: Multiple type Lights & Fans (in Residences, Malls, Small Shops, Hotels & Banks), Computers (without any inrush current carrying Loads mixed on Product output), Refrigerators, TV, Photo-Copier, Washing Machine, Dental Chair, Desert Cooler, Air-Conditioner (in UPS JM SW 2750+ and above models), Petrol Pump Nozzles (with UPS JM SW 5500+ and above models), Water Motors of Capacity within the Range of rated Output Power of each models.										

* O-General make Air-Conditioners are exception, Need to Check Start-up Current of this AC carefully before recommending with JUMBO UPS Models.

** VRLA/SMF Type Batteries are generally not recommended, but if need to use such Battery Type, Kindly remember to operate the Battery Selection Switch available on back bottom side of the Product & Keep the Switch Position on bottom side, in order to reduce the Boost Charge Voltage level (from 14.4/14.5VDC per Battery) upto the acceptable limit of 14.1 VDC per Battery.

12/22