



Smart Micro Series

1- Introduction of Product

Faratel Smart Micro UPS series are designed with Line-Interactive technology and can provide pure sine wave in output independent from input AC line even in power failure.

Faratel SM series are equipped with smart micro-processing system to check for proper operation of UPS and find probable errors in any part of the UPS.

SM UPS series are designed for Computer systems, sensitive measurement instruments, laboratory precision instruments, medical devices, Telecommunication or any other power sensitive devices.

1-1- Advance Features

- Ability to remove EMI and RFI Noises
- System modulated for better and easy Servicing
- Low weight and size
- Includes Charger Switching (Some Models)
- Equipped with Smart RS232 Port
- Includes UPSwing Pro software to control and monitor UPS, auto save open files and shutdown OS and UPS in critical events
- Contains Sealed Lead-Acid Batteries
- Includes Test Button for checking if UPS working properly in lack of AC line Voltage
- Intelligent Microprocessor controlled
- Cold Start
- Automatically Battery Charging in UPS off mode
- In Rack-mount models (SM1250BN-RM)

1-2- Protection Systems

- Protection of UPS loads against two phased Input AC line
- Back Feed Protection on Battery Mode
- Protection of UPS loads against lightning, spike and surge
- Protection against output voltage variations out of range
- Protection against Input voltage and frequency variations
- Common Mode Noise protection
- Output short circuit and overload protection
- Protection against over-discharge
- Protection against upper battery charger voltage
- Tel/Fax/Modem/Network Surge Suppression

2- UPS Block Diagram

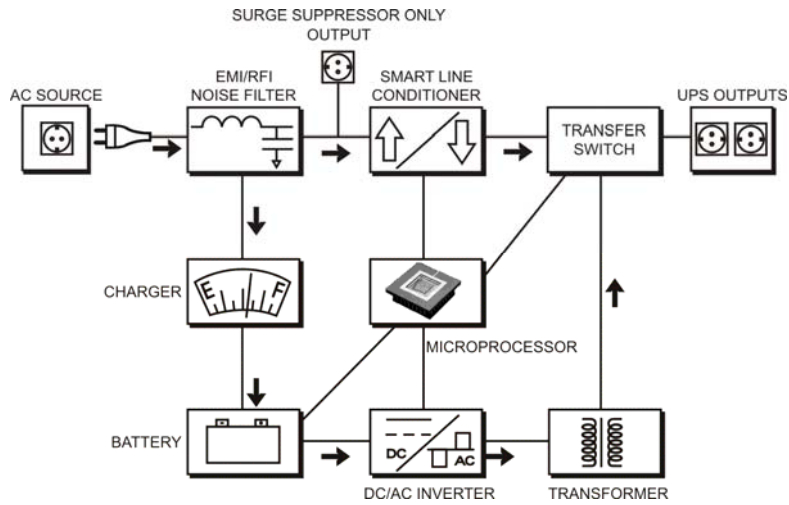


Figure 1: Block Diagram of SM UPS Series

3- Front Panel View

- 1- Power/Test Button
- 2- Boost Indicator
- 3- Normal Mode Indicator
- 4- Buck Indicator
- 5- Backup Mode Indicator
- 6- Battery Defect Indicator
- 7- Overload Indicator

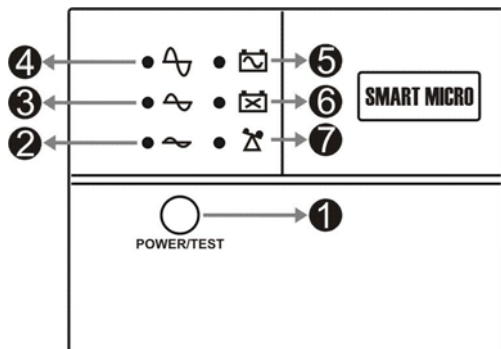


Figure 2: Front Panel of SM1250BN (Stand-up Models)

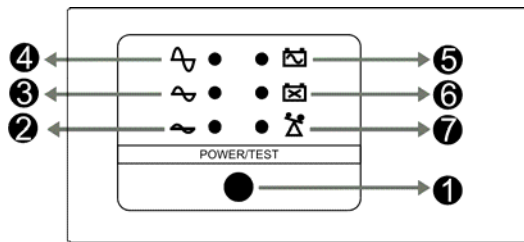


Figure 3: Front Panel of SM1250BN-RM

4- Rear Panel View

- 1- Input AC Line Cable
- 2- Input Fuse
- 3- Earth Connection Screw
- 4- Site Wiring Fault Indicator
- 5- Grounded Output Receptacles
- 6- Surge Suppressor grounded Output Receptacles
- 7- Smart RS232 Port
- 8- Modem/Network Surge Protection (RJ45/11 connection)

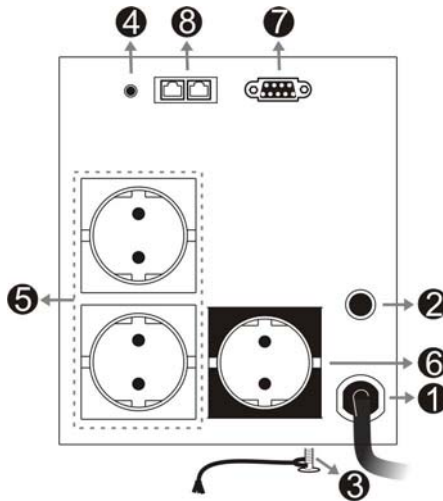


Figure 4: Rear Panel of SM1250BN

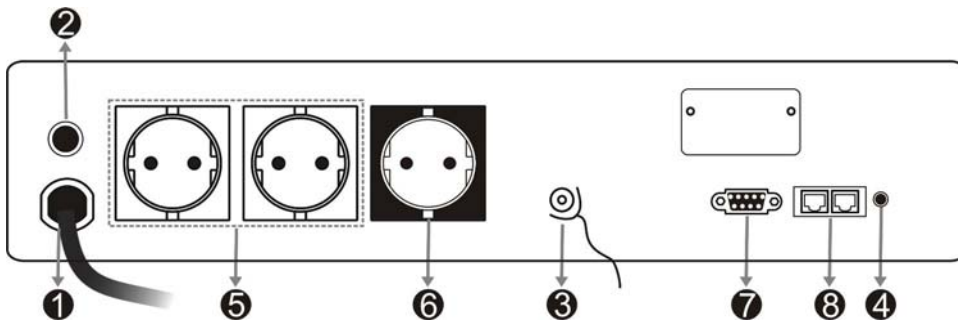


Figure 5: Rear Panel of SM1250BN-RM

5- Technical Specification Table

Model		SM1250BN	SM1250BN-RM
Technology		Line-Interactive	
Power		1250VA - 750Watt	
Input	Voltage	220VAC±20%	
	Max. Current	10A	
	Frequency	50Hz±5%	
	Phase	Single Phase	
	Nominal Power Factor	0.6	
Output	Voltage	AC Mode: 220 VAC±10% Sine Wave Battery Mode: 220Vr.m.s±5% Quasi-Sine Wave	
	Current	5.68A	
	Frequency	AC Mode: 50Hz±5% Battery Mode: 50Hz±0.2%	
	Phase	Single Phase	
	Nominal Power Factor	0.6	
	Over Load Capacity	110%~130% of Nominal Power for 1 Minute More than 130% of Nominal Power for 3 Seconds	
Battery	Type	Sealed Lead Acid Batteries with Free Maintenance	
	Voltage	24VDC	
	Internal Battery	2*(12V/7Ah)	
	Recharge time	10 hours after 90% discharge	
	External Battery	Not Available	
Efficiency		75%	
Transfer time		2.5msec	
Physical Specification	Dimension (H*D*W)(mm)	140*385*169	With Handles: 483*387*90 Without Handles: 457*357*90
	Shipping Weight (Kg)	15	17.8
	Net Weight (Kg)	13.6	16.3
Environment	Ambient Operation	Temperature	0-40°C
		Humidity	0 ~ 95% (non-condensing)
		Altitude	1000 meters max. elevation (Based on IEC62040)

UPS	UPS Power (VA)	Battery	Load/Backup time (Minutes)						
			20%	40%	50%	60%	70%	80%	Full
SM630	630	12V/7AH	12				7		4
SM1250-RM	1250	2*12V/7AH	25	12	9	8	6	5	3

6- How to Contact Faratel

6-1- Central Sales Department

Address: Faratel Bldg., No. 21, Kandovan Alley (Opposite of Nejatolahi St.), Enqelab St., Tehran, Iran

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Telephone: (+98 21) 6670 0001 up to 5

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Email: sales@faratel.com

URL: <http://www.faratel.com>

6-2- Central Customer Service

Address: Faratel, Shahid Abdolrahimi St., 17 Shahrivar St., Sanay-e Felezi St., Fifth Kilometer of Old Karaj Rd., Tehran, Iran

Postal Code: 1378763511

Telephone: (+98 21) 6680 9495 up to 7

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Email: support@faratel.com

URL: <http://www.faratel.com/support/>

In order to find the nearest authorized representatives of Customer Service in Iran please refer to the above URL.