

**Specification:-**

- Based on highly reliable Microchip PIC micro ® microcontroller.
- MOSFET based power stage, with PWM AC output.
- Mains to Backup mode changeover time less than 9mSec.
- Backup mode protected against Overload, short circuit, reverse phase and unbalanced MOSFET drive.
- Line Synchronized change over from Mains to Backup and Back.
- Over current of MOSFET's protected within micro seconds.
- Three step AVR with input range 140V to 280V AC. and output range 200-245V AC.
- MOSFET based PWM battery charger.
- Automatic low battery warning and cut off.
- Maximum output load = 600VA

Test Points & Observations

- Test Point 1 - AC mains voltage at the input of UPS.
- Test Point 2 - AVR first relay control signal.
- Test Point 3 - AVR second relay control signal.
- Test Point 4 - AVR third relay control signal.
- Test Point 5 - Transformer bindings for AVR section.
- Test Point 6 - Transformer bindings for PWM section.
- Test Point 7 - Transformer bindings for charging section.
- Test Point 8 - AC voltage at the output of UPS.
- Test Point 9 - Output voltage of charger (MAINS MODE) & Battery voltage (BACK UP MODE)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Test Point 10 - PWM 1 Signal from PIC controller.
- Test Point 11 - PWM 2 Signal from PIC controller.
- Test Point 12 - Control signal of buzzer from PIC controller.
- Test Point 13 - Inverter indicator signal.
- Test Point 14 - Output indicator signal.
- Test Point 15 - Mains indicator signal.
- Test Point 16 - Battery reference voltage input to PIC controller
- Test Point 17 - Mains reference voltage input to PIC controller

Fault & Troubleshooting :

- Backup mode failure
- Mains failure
- Output failure
- Battery failure
- Buzzer failure
- Mains Indicator failure
- Output Indicator failure
- INV. Indicator failure
- Battery reference voltage failure
- Complete UPS Circuit failure (Backup & Mains Both Mode Failure)

● Accessories

Digital Multimeter



Features

- 3½ Digit Manual Multimeter
- Inter locking terminal
- Bulid in hanging kit

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Technical

Basic Functions	Range	Basic Accuracy
DC Voltage	200mV	$\pm(0.5\% + 1d)$
	2V, 20V, 200V	$\pm(0.5\% + 3d)$
	1000V	$\pm(0.8\% + 3d)$
AC Voltage	2V, 20V, 200V	$\pm(1.0\% + 5d)$
	700V	$\pm(1.2\% + 5d)$
DC Current	20uA	$\pm(1.2\% + 3d)$
	2mA	$\pm(1.0\% + 3d)$
	200mA	$\pm(1.5\% + 5d)$
	10A	$\pm(2.0\% + 10d)$
AC Current	20mA	$\pm(1.2\% + 5d)$
	200mA	$\pm(2.0\% + 5d)$
	10A	$\pm(3.0\% + 10d)$
Resistance	200Ω	$\pm(1.0\% + 10d)$
	2KΩ, 20KΩ, 200KΩ	$\pm(1.0\% + 1d)$
	20MΩ	$\pm(1.0\% + 5d)$
	200MΩ	$\pm[5.0\% (rdg-10d) + 20d]$
Capacitance	2nF, 200nF, 2uF	$\pm(4.0\% + 3d)$
	200uF	$\pm(5.0\% + 3d)$
Frequency Testing	200KHz	$\pm(1.5\% + 10 \text{ digits})$
Temperature	-20°C to 1000°C	$\pm(1.0\% + 3)$

Special Function :

Diode test	✓
Transistor Testing	✓
Continuity Buzzer	Approx. < 70Ω
Power	9V (6F22)

Auto Transformer



- We offer good quality of single phase and three phase Auto Transformer. It has a single winding which is made up of supreme grade copper wire.
- We provide these transformer which can be varied the output voltage as required.

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Technical**Single Phase**

- Input : 240v Ac
- Output : 0 - 270v Ac
- Output Current (MAX.) : 2/4/6/8/10/15/20/28 Amp.

Three Phase

- Input : 440v Ac
- Output : 0 - 470v Ac
- Output Current (MAX.) : 2/4/6/8/
10/15/20/28 Amp

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