

Order Code - 22235679.6 **UPS Trainer**



Specification:-

- Based on highly reiable 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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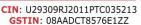














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Technical

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

Special Function:

Diode test	×
Transistor Testing	4
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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Tesca Technologies Pvt. Ltd.



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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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