

Power Electronic Equipment Test

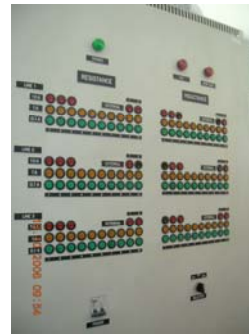
Products Covered and Standard

- UPS (Uninterruptible power systems)
- Self-Commutated Inverters
- Battery Charger
- Solar charger and inverter

IEC 62040-3 and TIS.1291-2545
TIS.1292-2538
TIS.1293-2538
PEA requirement

Performance requirement

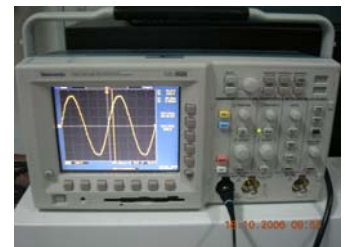
- Steady-state voltage
- Frequency variation
- Inrush current
- No load
- full load
- light load
- Unbalance – balance load test
- Stored energy mode
- Normal mode
- Load step
- Stored energy time
- Restore energy mode
- Backfeed test
- Short-circuit test
- Efficiency test
- AC input failure-return test
- Restart test
- Harmonic components measurement
- Transfer time
- Electric strength, Insulation resistance
- Fast transient burst and surge
- Noise test



Standard load



Power analyzer



Oscilloscope



Surge generator



Power meter

Test Equipment

- Standard load (Resistance & Inductance) : 81kVA with Power factor 0.5 - 1.0 Resolution : 0.1 A
- Non-linear load : 5 kVA
- Power analyzer with current transformer and Oscilloscope
- Surge generator (IEEE C37.9031) : Oscillatory and Fast transient burst waveform
- Sound level meter : ANSI S 1.4
- Anechonic room chamber : background noise less than 20 dBA
- DC power supply

For more information, please send your queries or contact us at the following:

ELECTRICAL AND ELECTRONICS INSTITUTE

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