DOBLE OFF-LINE TESTING & ASSESSMENT

M4100 4TH GEN

Technical Specifications

POWER SPECIFICATIONS						
Output Voltage 0 to 12 kV ac						
Output Current	Continuous @ 100 mA at 10 kV 30 minutes @ 200 mA at 10 kV 4 minutes @ 300 mA at 10 kV					
	based on 50°C operating temperature. gh currents will be realized at lower operating					
Output Power	3 kVA					
Sinusoidal output signal internal generated independent of input supply, No loss in performance when used with portable generator.						
A.C. Input*	95-264 V AC 47 to 63 Hz 16 A max at 110 V 10 A max at 220 V					
MEASUREMENT, ACCURACY AND RANGE TEST FREQUENCY						
TEST FREQUENCY						
Range	45 to 70 Hz independent of input signal					
Resolution	0.1 Hz					
Accuracy	+ 1% of reading					

 * There are power restrictions for input voltages below 190 V AC.



	TEST VOLTAGE						
Range	25 V to 12 kV						
Resolution	1 V						
Accuracy	± 1% of reading						
	TEST CURRENT						
Range	0 to 5.0 A						
Resolution	0.1 μΑ						
Accuracy	± 1% of reading, ±1 µA						
	CAPACITANCE						
Range	0 to 100 μF						
Resolution	0.01 pF						
Accuracy	\pm 0.5% of reading, \pm 1 pF						
	INDUCTANCE						
Range	6 H to 10 MH						
Resolution	0.01 H						
Accuracy	± 0.5% of reading						
	WATTS						
Range	0 to 2 kW, actual						
Resolution	0.5 mW						
Accuracy	\pm 2% of reading at 10 kV \pm 0.03% of VA, \pm 0.5 mW						
	POWERFACTOR/TAN-DELTA						
Range % PF PF % Tan d Tan d mW/Var	0 to ± 100.00% 0 to ± 1.0000 0 to ± 999.99% 0 to ± 9.9999 0 to ± 9999.9						
Resolution	0.01% / 0.0001						
Guaranteed Accuracy	± 1% of Reading, ± 0.04% PF/Tan d (Entire Range)						
Typical Accuracy	< ± 0.005% (Entire Range)						



Range	-20°C to +50°C	
Resolution	0.1°C	
Accuracy	±4°C	

Requires optional temperature probe							
ENVIRONMENTAL							
Instrument	-20°C to +50°C						
Storage	-40°C to +70°C						
Humidity	90% non-condensing						
	DIMENSIONS						
Instrument	10-1/4 in. H x 20 in. W x 25-1/4 in. D 26 cm H x 50.8 cm W x 64.1 cm D						
High Voltage Cable	60 ft./18 m (other lengths available as options)						
Weight	95 lbs/45.5 kg						
MAXIMUM INTERFERENCE CONDITIONS AT LINE							

MAXIMUM INTERFERENCE CONDITIONS AT LINE

Electrostatic 15 mA rms of interference current into any lead or cable with no loss of measurement accuracy.

Applicable to a maximum ratio of interference

current to specimen current of 20:1.

Electromagnetic $500 \mu T$, at 50 Hz in any direction

		DS

FCC 47 CFR Part 15 Class A Emissions requirements (USA)

EN 55011:1998/A1:1999/A2:2002 Group 1 Class A ISM Emissions requirements (EUROPE)

AS/NZS CISPR 11:2004 Class A ISM Emissions requirements (Australia)

EN 61326:1997/A1:1998/A2:2001/A3:2003

IEC 61000-4-2/3/4/5/6/11

IEC 801-2(1984) Electrostatic Discharge

ANSI/IEEE C37.90.1 Surge Withstand Capability

EN 61010-1:2001 (2nd Edition)

IEC 60068-2-2 Dry Heat

IEC 60068-2-1 Cold

IEC 60068-2-30 Damp Heat

IEC 60068-2-27 Shock

IEC 60068-2-6 Vibration

IEC 60068-2-6 Drop test

ASTM D999.75 Transport Shock Test



^{**} Note: M4100 meets mechanical standards outside of shipping case or container.