

<b>1 Power</b>	
Power supply	(230 ± 10%) V AC, (50±0.5) Hz
PC connection	through ethernet/USB
<b>2 Acquisition rate</b>	
Time base accuracy	< 20 ppm
<b>3 Synchronisation</b>	
Delay between slices	<=50 nsec
Communication	Through Ethernet
Data Rate	100Mbps
Max. Sample Rate	40 kS/sec
Max. Throughput per Chain	10MB/s
<b>4 Output specifications</b>	
<b>4.1 ADC</b>	
Type	>=16-bit SAR
Sampling Rate	>= 1 MS/sec simultaneously
Analog anti alias filter	Bypass or analog 100 kHz 5th order Bessel
Digital low pass filter	Software selectable
Digital filter Characteristic	Bypass, Butterworth or Bessel
Filter Order	2nd , 4th, 6th or 8th
Ratio Sample rate to Filter Freq.	From 2 to 100
Topology	Cascaded IIR Filter (up to 4 sections)
<b>4.2 Other specifications</b>	
Total Number of channels	8 (4-Voltage+ 4-Current)
Connectors	DSUB-9/BNC/Banana
Analogue bandwidth	1 MHz
Voltage input	415 Vrms AC and ±650 V DC All channels isolated and suitable for differential voltage measurements
Current input	60 A peak
<b>Accuracy</b>	
Signal frequency	Accuracy
DC	<= ±0.03 % of reading ±0.02 % of range ±0.04 V
Up to 1 kHz	<= ±0.03 % of reading ±0.02 % of range
Up to 10 kHz	<= ±0.1 % of reading ±0.05 % of range
Up to 100 kHz	<= ±2 % of reading ±0.1 % of range
Up to 1000 kHz	<= ±5 % of reading ±0.5 % of range
<b>Typ. Noise floor</b>	
2 MHz	-83 dB
<b>Typ. CMR @ 50 Hz / 1 kHz / 10 kHz</b>	85 dB / 75 dB / 50 dB
Gain Drift	Typical 10 ppm/K, max. 40 ppm/K
Offset Drift	Typical 1 mV/K + 1 ppm of range/K, max 2 mV/K + 5 ppm of range/K
Gain Linearity	<0.02 %
Channel Cross talk	-115 dB @ 50 Hz; -90 dB @ 1 kHz
Input Coupling	DC, AC
Input Impedance	>=(10 MΩ    2 pF)
Protection class	CAT III 600 V; CAT II 1000 V

	Over-voltage Protection	In+ to In-: 1.8 kVRMS, Inx to GND: 1.4 kVRMS
5	<b>Sensors</b>	
5.1	<b>Voltage probe cable</b>	
	Length	>=1m
	Connector type	Crocodile at measurement end, Banana/BNC at the DAQ end
5.2	<b>Current sensor</b>	
	Type	Clamp type
	Peak current	60 A
	Accuracy	<= ±0.5 % of the reading
	Clamp opening diameter	>= 20 mm
6	<b>Software</b>	Windows 10 compatible
	Control	Programmable and controllable from MATLAB