

Accuenergy DC Power Meter

- Measures Power & Energy
- 3 Line LCD Display
- Limit Alarm
- Analog & Relay Outputs
- Modbus Communication
- Digital Input & Output Options
- 72x72 DIN Mounting


AcuDC243
Applications:

- DC Energy Management
- Solar Photovoltaic Systems
- Industrial DC Control Systems
- Wind Power Generation
- Light Rail Transit Systems
- Metallurgy & Electroplating
- DC Excitation Systems
- Telecommunication Power Distribution

SPECIFICATIONS

Parameter	Accuracy	Resolution	Range
Voltage	0.2%	0.001V	0~1200V
Current	0.2%	0.005A	0~±50000A
Power	0.5%	0.001kW	0~±60000kW
Energy	0.5%	0.01kWh	0~999999.99kWh
Voltage Input Range	Direct Input 0~1000V; Via Hall Effect Sensor 0~1200V		
Input Impedance / Load	2Mohm / <0.6W		
Current Input Range	0~±20A (Direct Input, pick up current 0.02A); 0~±50000A (Via Shunt or Hall Effect Sensor)		
Shunt	50~100mV (programmable)		
Hall Effect Sensor	0~±5V/0~±4V, 4~20mA/12mA±8mA		
Power Consumption	2W (Max)		
Digital Input (DI)	Dry Contact, 2500Vac isolation		
Relay Output (RO)	Form A, 250Vac/30Vdc@3A		
Isolation	4000Vac		
Digital Output (DO)	PhotoMOS, 2500Vac isolation		
Load Voltage Range	0~250Vac/dc, 100mA(max)		
Max Output Frequency	25Hz, 50% duty cycle		
Analog Output (AO)	4-20mA/0~20mA; 0~5V/1-5V		
Load Capacity	mA: 750 Ohm; V: 20 mA		
Communications	RS485, half duplex, 2500Vac isolation		
Protocol	Modbus-RTU, 1200~38400bps		
Operating Temperature	-25°C ~ +70°C 5%~95% RH (non-condensing)		

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: AcuDC243-300-A2-P1-X1-C

AcuDC243— **A** — **B** — **C** — **D** — **E**

A	Voltage Input	
	1000	1000VDC nominal
	600	600VDC nominal
	300	300VDC nominal
	60	60VDC nominal
	5	5V/4V via Hall sensor
B	Current Input	
	A0	±20A
	A1	50 or 100mV shunt
	A2	Volt Hall Sensor 0 to ±5V/±4V
	A3	Current Hall Sensor 4-20mA
C	Power Supply	
	P1	100-415 VAC, 50-60 Hz; 100-300 VDC, 3 W
	P2	20-60 VDC, 3 W
D	I/O	
	X1	2DI+2AO (4-20mA/0-20mA)
	X2	2DI+2AO (0-5V/1-5V)
	X3	2DI+2RO
	X4	2DI+2DO
E	Communication	
	C	RS485, Modbus RTU
	(blank)	None

Crompton Digital Meter System

- Display Voltage, Current & Frequency
- True RMS Measurement
- Fully Programmable PT and CT Ratios
- Simple Menu Driven Interface
- ANSI Case
- Bright LED Display


Integra 640

Display up to 12 electrical parameters on 4 screens:

1 System Volts System Current System Frequency	3 Volts L1 - L2 Volts L2 - L3 Volts L3 - L1
2 Volts L1 - N (4 wire only) Volts L2 - N (4 wire only) Volts L3 - N (4 wire only)	4 Current L1 Current L2 Current L3

SPECIFICATIONS

Max Input Voltage:	120% of nominal continuous, 2x for 1 sec.
Input Voltage Burden:	0.2 VA per line, nominal
Max Input Current:	120% of nominal continuous, 20x for 1 sec.
Input Current Burden:	0.6 VA per phase, nominal
System PT (primary):	400kV or 360MW max
System CT:	9999:5A or 360MW max
Auxiliary Supply	
AC Supply:	100 - 250V AC or DC nominal (85 - 287V AC Absolute) (85 - 312V DC Absolute)
Frequency Range:	45 - 66 Hz
DC Supply:	12 - 48V DC (10.2 - 60V DC Absolute)
Supply Burden:	6VA
Measuring Ranges	
Voltage:	70 - 120% of nominal (functional 4 - 120%)
Current:	5 - 120% of nominal
Frequency:	45 - 66Hz
Accuracy	
Voltage:	±0.1% of range ±0.4% of reading
Current:	±0.1% of range ±0.4% of reading
Frequency:	0.15% of mid frequency
Operating Temperature:	-20 to +70°C, <95% RH non-condensing
Storage Temperature:	-30 to +80°C
Enclosure:	Polycarbonate front and base, steel case
Terminals:	Barrier terminal strip, 6-32 screw
Compliance:	UL140758, IEC 1010, IP54 (front face)
Dimensions:	4.31" high x 4.31" wide x 6.7" deep
Panel Cut Out:	4.06" (103mm) diameter, 4 stud positions

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: CR/INT-0643-MIV-5-L

A - **B** - **C** - **D**

A	Basic Unit	
	CR/INT-0644	Integra 0640, 3 phase 4 wire
	CR/INT-0643	Integra 0640, 3 phase 3 wire
B	Input Voltage	
	ELV	100 - 120 V L-L (57.7 - 69.3V L-N)
	LOV	121 - 240 V L-L (70.1 - 139V L-N)
	MIV	241 - 480 V L-L (140 - 277V L-N)
	HIV	481 - 600 V L-L (278 - 346V L-N)
C	Input Current	
	5	5A CT input
D	Auxiliary Supply	
	10	100 - 120V AC
	19	190 - 240V AC