

114 - Data & Power Cabling Management Systems

MT32 wiring distribution systems and accessories

General Specification

Approvals: System	Designed to comply with BS 7671 IEE Wiring Regulations
Approvals: Connector	Designed to comply with EN 61535 (Fixed installation couplers for permanent connection)
Normal Voltage	230 Volts
Frequency (Hz)	50/60
Volt Drop Line & Neutral Connector	1.0m V/A/M
Volt Drop Line & Neutral (Flex system) 2.5mm	19.0 mV/A/M
Volt Drop Line & Neutral (Underfloor) 4.0m	12.0 mV/A/M
Connector Impedence	1.0mΩ/connector
Connector, Body Material	PA66 - GF25
Connector Colour Female	Black
Connector Colour Male	White
Compatibility	Keyed against incorrect insertion
Operating Temperature (Ambient)	-5°C to +40°C
Safety	PE contact engages first
Degree of Protection Engaged	IP2XC

Earthing requirements for the installation of equipment having High Protective/Conductor currents. BS 7671:2008 Reg. 543.7

The scope of Reg. 543.7.1.103 requires that every final circuit intended to supply one or more items of equipment, where the total protective conductor current is likely to exceed 10mA. In normal use, shall have a high integrity protective connection.

Voltis Home

The Voltis Home unit is wall mounted and easily installed by a qualified electrician.

Rating (amps)	60 Amps (100 amps in Bypass)
Rating (kVA)	8.72 kVA
Phases	Single phase
Frequency (Hz)	50/60
Primary voltage	243 Volts
Secondary voltage	218 Volts
Ambient temperature range	-10 to +40°C
Humidity	Up to 90%
Size (W x H x D) mm	300 x 240 x 147
IP Rating	IP2XC
Weight	12kg

Complies to Low Voltage Directive 2006/95/EC

BS EN 61439-1:2009, BS EN 61439-2:2009

e-Tracker

ELECTRICAL	
Current input	Clip-On or Flexclamp CTs, 400mV.FS output
Current range	50A-2500A
Voltage direct 3Ø	450v L-L 50Hz via voltage Clips
Voltage direct 1Ø	240v 50Hz via 1Ø socket outlet
Voltage nominal	Adjustable 1Ø 220v +/-10% 3Ø 400v +/-10%
Pulse output	Volt free contact interface option
Battery	Rechargeable cyclon 2.5AH battery
Charge sources	Integral charger via voltage connections
Battery life	Approx 2 weeks of recorded current and calculated kVA only
Insulation inc CTs	2.5kV for 1min
Connection leads	CT to Plug 1.5m
ACCURACY	
Clip-On CTs	+/-1% percentage of reading @25°C for PF -0.7 unity & 10% -100%IP
Flexclamp CTs	+/-2% of reading within conditions as above
CONSTRUCTION	
Material	ABS case with insulated magnetic mounting panel
Climatic	Oper. temp -10°C/+50°C, 95% RH (NC), IP30 protection
STANDARDS	
Calibration & safety	IEC 1036 and IEC 61010-1
EMC	EN550022:1994, EN50082 Pt.1 1992

k-Wattch

ELECTRICAL	
Current input	Clip-On hinged CTs type KW32 plug terminated leads
CT input lead	Dual colour coded 1.5m screened lead length
CT amps range	CT range selectable to 100, 200, 500, 1000A Ip
CT jaw capacity	32mm ID, for use on non-armoured phase cables
CT insulation	2.5kV for 1 minute
Voltage input	1Ø 200/250v 50 Hz, for both 1Ø & 3Ø (V-Trac) operation
Voltage lead	3 pole 300v safety socket on 2m lead to 1Ø fused plug
Voltage nominal	1Ø 240v, 3Ø 415v auto selected V.Ref. in battery mode
Consumption	Operation and trickle charge 3W max, fusing 3A
BATTERY	
Rechargeable nickel metal hydride	
Battery life	7 days operation without any mains or external charge
Charge source	Integral trickle charge when mains lead connected
External charge	12vdc charger, extends battery mode operation indefinitely
Charge rate	6 hours to full charge with external charger
Charge indication	Battery Mode only: LCD display on switch on External charger - Red/Green LED Symbolic
STANDARDS	
ABS case with insulated magnetic mounting panel	
Calibration, Safety	IEC 1036 and IEC 61010-1, 300v CAPIII
EMC	EN55022: 1994. EN50082 Pt.1 1992
MEMORY	
USB memory stick	Approved type 2GB capacity
Integration period	Sampling rate 1k/sec, fixed 15min integration (averaging)
Synchronisation	Auto Sync on hour and quarter hour via internal clock
Data transfer	Upload via any USB port on PC running Deltrax5
Auto data stick	New date and time stamped data stacked on end of any previously uploaded data for the same recording exercise
DISPLAY	
Instantaneous	Page 1: Phase Currents, System Volts and PF and kW
Cumulative	Page 2: kWh consumption, Peak and Mean kVA
ACCURACY	At 25°C for PF -0.7 - unity, True RMS
Clip-on CTs	Calibration ≤ +/-1% of reading at 10% IP & 100% Ip
VTrac	Calibration ≤ +/- 1%; voltage amplitude balance ≤ 4v
Instrument	Typical +/- 2% of reading over 10%-100% of range
CONSTRUCTION	
Material	ABS case, Neoprene boot with panel fixture magnet
Climatic	Operation -10°C - +50°C, 95% (nc) IP30 protection
k-Wattch dimensions	210x115x60mm. Case 345x292x120mm. Weight 3kg