Product data sheet
Characteristics

S7650A0C0B6E0A0A
ION7650 - wDispl - 5MB 512s - 5A 240VAC/300VDC 60Hz - RS+T2+E - 8I+3R +4O

Main

Range	PowerLogic
Product name	PowerLogic ION7650
Device short name	ION7650
Product or component type	Energy and power quality meter

Complementary

Power quality analysis	Harmonic distortion Compliance monitoring Dip and swell, transient Disturbance direction detection Programmablity (logic and math functions) Setpoint learning Voltage sag and swell detection Waveform capture Up to the 63rd harmonic
Device application	Energy pulsing and totalisation Co-generation and IPP monitoring Demand and power factor control Tariff metering Load curtailment Equipment monitoring and control Instrument transformer correction
Type of measurement	Power factor total Power factor per phase Apparent power total Apparent power per phase Active power total Active power per phase Reactive power total Reactive power per phase Current Voltage Frequency
Supply voltage	110...300 V DC 85...240 V AC 47...63 Hz
Network frequency	60 Hz
Line Rated Current	5 A
Poles description	3P 1P + N 3P + N
Power consumption in VA	20 VA
Maximum power consumption in VA	45 VA
Display resolution	320 x 240 pixels QVGA
Display type	Backlit LCD
Sampling rate	512 samples/cycle
Measurement current	0…5 A
Input type	Current 0.005...20 A 0.002 Ohm)

Measurement voltage	100…600 V AC phase to phase 57…347 V AC phase to neutral
Frequency measurement range	42…69 Hz
Number of inputs	8 digital 120 V DC
Measurement accuracy	Current 0.1 % 1...5 A Voltage 0.1 % 57...288 V Energy 0.2 %
Accuracy class	Class 0.2S energy IEC 62053-22
Number of outputs	3 relay 4 solid state
Communication port protocol	ION Telnet IEC 61850 DNP3 Modbus TCP/IP
Communication port support	SUB-D 9 RS232 ST fiber optic RJ11 modem RJ45 Ethernet RS485
Data recording	Data logs Min/Max of instantaneous values Event logs GPS synchronisation Time stamping Sequence of event recording Trending/forecasting
Transmission rate	300...115200 bauds 10/100 Mbit/s <= 19200 bauds 300...57600 bauds
Memory capacity	5 MB
Web services	Web server
Tamperproof of settings	Protected by access code
Compatibility code	ION7650

Environment

Electromagnetic compatibility	Electrostatic discharge IEC 61000-4-2 Susceptibility to electromagnetic fields IEC 61000-4-3 Electrical fast transient/burst immunity test IEC 61000-4-4 1.2/50 µs shock waves immunity test IEC 61000-4-5 Conducted and radiated emissionsB CISPR 22
Mounting mode	Flush-mounted
Mounting support	Enclosure door
Type of installation	Indoor installation
Overvoltage category	III
IP degree of protection	Back IP30 IEC 60529 Front face IP50 IEC 60529
Relative humidity	5…95 %
Pollution degree	2
Ambient air temperature for operation	-4…158 °F (-20…70 °C)
Ambient air temperature for storage	-40…185 °F (-40…85 °C)
Operating altitude	0...6561.68 ft (0...2000 m)
Standards	IEC 61010-1
Maximum Width	7.56 in (192 mm)
Maximum Depth	6.85 in (174 mm)
Maximum Height	7.56 in (192 mm)
Net Weight	4.19 lb(US) (1.9 kg)

Ordering and shipping details

Category	09754 - POWERLOGIC ION 75/76 HARDWARE
Discount Schedule	PM1
GTIN	00785901686064
Nbr. of units in pkg.	1
Package weight(Lbs)	6.3 lb(US) (2.86 kg)
Returnability	Yes
Country of origin	CA

Packing Units

Package 1 Height	10.24 in (26.000 cm)
Package 1 width	11.02 in (28.000 cm)
Package 1 Length	17.32 in (44.000 cm)

Offer Sustainability

EU RoHS Directive	Compliant ⤢EU RoHS Declaration
China RoHS Regulation	⤢China RoHS Declaration
Environmental Disclosure	⤢Product Environmental Profile
Circularity Profile	⤢End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months