Product data sheet

Specifications

SQUARE D

ION7650 - wDispl - 5MB 512s - 5A 240VAC/300VDC 60Hz - RS+T2+E - 20I+3RC+4O

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⚠ Discontinued on: Oct 12, 2022

⚠ **Discontinued**

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	Co-generation and IPP monitoring Tariff metering Instrument transformer correction Equipment monitoring and control Demand and power factor control Energy pulsing and totalisation Load curtailment
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 + N 3P 1P + N
Power Consumption In Va	20 VA
Maximum Power Consumption In Va	45 VA
Display Resolution	320 x 240 pixels QVGA

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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Display Type	Backlit LCD
Sampling Rate	512 samples/cycle
Measurement Current	0…5 A
Input Type	Current 0.005...20 A (impedance 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	16 digital 120 V DC 4 analog 0...20 mA
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	Trending/forecasting Sequence of event recording Time stamping Event logs Data logs GPS synchronisation Min/max of instantaneous values
Transmission Rate	10/100 Mbit/s <= 19200 bauds 300...115200 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 conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 Conducted and radiated emissions B conforming to CISPR 22
Mounting Mode	Flush-mounted
Mounting Support	Enclosure door
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP30 back: conforming to IEC 60529 IP50 front face: conforming to IEC 60529
Relative Humidity	5…95 %

Apr 25, 2024

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
Width	7.56 in (192 mm)
Depth	6.85 in (174 mm)
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	00785901811848
Returnability	No
Country Of Origin	CA

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	11.02 in (28.0 cm)
Package 1 Length	17.32 in (44.0 cm)
Package 1 Weight	7.72 lb(US) (3.5 kg)

Contractual warranty

Warranty	18 months

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Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩

Guide to assess a product's sustainability ⟩

Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
California Proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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