

GEIST

Future Thinking • Solutions Today



UPGRADEABLE
PDU



GEIST
POWER | Upgradeable

Geist Upgradeable power strips give data centre managers the flexibility to install the intelligence they require today with the option to upgrade technology as needs evolve. From basic power to sophisticated power monitoring with remote sensor, the Geist Upgradeable product line adapts to your business well into the future.

Features & Benefits

Upgradeable Monitoring – Install the technology you need today with the ability to upgrade as your needs evolve.

Hot-Swappable Units – Add, remove or switch Interchangeable Monitoring Devices (IMD) without interrupting power to critical servers.

High Temperature Grade – 60°C working ambient variants for high temperature environments.

Remote Sensor Port – Monitor environmental conditions such as temperature, airflow, humidity and dew point with the use of a Geist remote sensor.

Input Power Monitoring 1% Accuracy (ANSI and IEC standards) – Allows data centre managers to accurately reconcile power usage.

Fault-Tolerant Daisy Chaining – Simplifies intelligent PDU connectivity and ensures data is reported even with a break in the chain.

Low-Profile Breakers – Compact profile to install in tight spaces for units requiring breakers.

Red LED Rotatable Display – Read power data easily in dimly lit areas.

Available With or Without Standard Locking Sockets – Protects against vibration and external elements that can easily dislodge power leads. No special leads or hardware are required.

Upgrade Path

There is a clear route to upgraded functionality for Geist PDUs. However, it is not necessary to start at the most basic level. Simply choose the functionality that suits your requirements today and even if that is at our current most sophisticated level, our future solutions approach will allow you to upgrade at a later date.



Future Upgrades

We are always looking to add functionality as technology advances, allowing you to make more of our product in the future. That means you can stay at the very peak of performance when it comes to our upgradeable power products.

IMD – Power Monitoring and Remote Sensor

The latest Interchangeable Monitoring Device allows remote power monitoring and also adds the ability to connect a remote sensor - ideal for installations requiring environmental monitoring.

See pages 04 - 07

IMD – Power Monitoring

A PDU that offers power monitoring: the perfect first step towards PDU increased functionality.

See pages 08 - 11

Basic

Should your facility not be ready for any power monitoring, but it is on the future development plan, then you can start with the basic upgradeable unit. No IMD is included with the device, but the technology is included within the power strip.

See pages 12 - 13

Interchangeable Monitoring Device (IMD)

Upgradeable Local and Remote Power Monitoring + Remote Sensing

Part Number: **IMD-02EV** - Vertical
IMD-02EH - Horizontal

Description

The IMD-02EV Interchangeable Monitoring Device + Remote Sensing delivers a comprehensive view of power usage and environmental conditions in a data centre. To be used with the modular design of the Upgradeable PDU, it is a hot-swappable replacement or upgrade solution allowing new technology to be applied as it is developed.

The IMD-02EV offers on-board and web power monitoring display options with quick access to the unit's current, volts, real power, apparent power, power factor and kilowatt hours. By monitoring these critical variables, data centre managers can evaluate energy usage trends and ensure maximum uptime. The unit's environmental sensor port also gives data centre managers the ability to track critical climate variables like temperature, airflow, humidity and dew point with the use of a Geist remote sensor.

Racknet Enabled — The IMD-02EV easily integrates with Racknet — Geist's DCIM software. Racknet (purchased separately) collects and reports critical power and environmental data for multiple PDUs in one, user configurable interface. Users gain immediate remote access to trends, alarms and histories of devices in the data centre through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact us for more details.

Product Summary

Interchangeable Monitoring Device, Power Monitoring + Remote Sensing, Phase (X, Y, Z) Monitoring (A, V, W, VA, kWh, PF) Phase Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements, Circuit/Breaker Monitoring (A), Circuit/Breaker Current Measurements Independently Tested and Verified at 2% Accuracy.

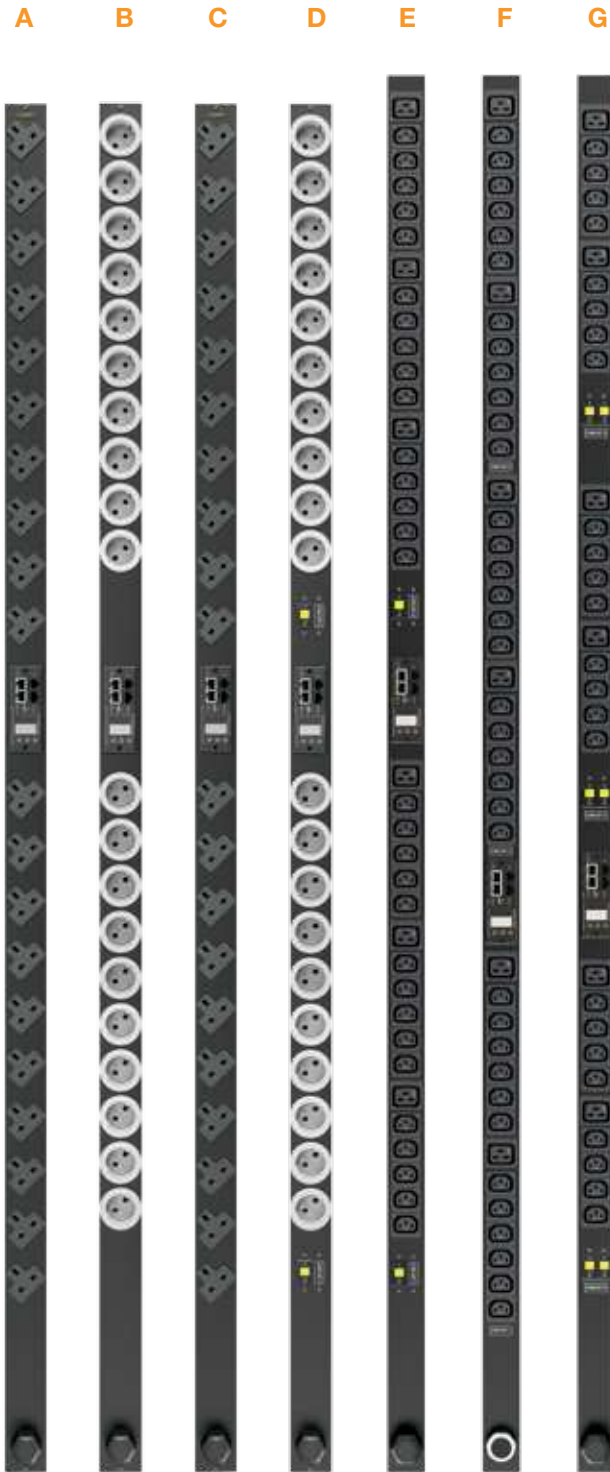


Upgradeable Local and Remote Power Monitoring + Remote Sensing



Key	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Remote Sensor Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
Power + Remote Sensing - IMD2										
A	GI29987	32A	230V	7.3kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	Yes	61.25in & 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
B	GI29988	32A	230V	7.3kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	Yes	61.25in & 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
C	GI29989	16A	230V	3.6kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	Yes	61.25in & 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
D	GI29990	16A	230V	3.6kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	Yes	61.25in & 64.75in 1556mm x 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
E	GI20031	32A	230V	7.3kW	2P+E (IP44)	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in 1556mm x 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
F	UI20014	16A	230/400V	11.0kW	3P+N+E (IP44)	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in 1556mm x 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
G	GI20033	32A	230/400V	22.0kW	3P+N+E (IP44)	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in 1556mm x 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm

Additional configurations available. See them all at geistglobal.com/upgradeablePDU.



5 YEAR
WARRANTY

Interchangeable Monitoring Device (IMD)

Upgradeable Local and Remote Power Monitoring

Part Number: **IMD-02XV** – Vertical
IMD-02XH - Horizontal

Description

The IMD-02XV Interchangeable Monitoring Device delivers a comprehensive view of power usage in a data centre. To be used with the modular design of the Upgradeable PDU, it is a hot-swappable replacement or upgrade solution allowing new technology to be applied as it is developed.

The IMD-02XV offers on-board and web power monitoring display options with quick access to the unit's current, volts, real power, apparent power, power factor and kilowatt hours.

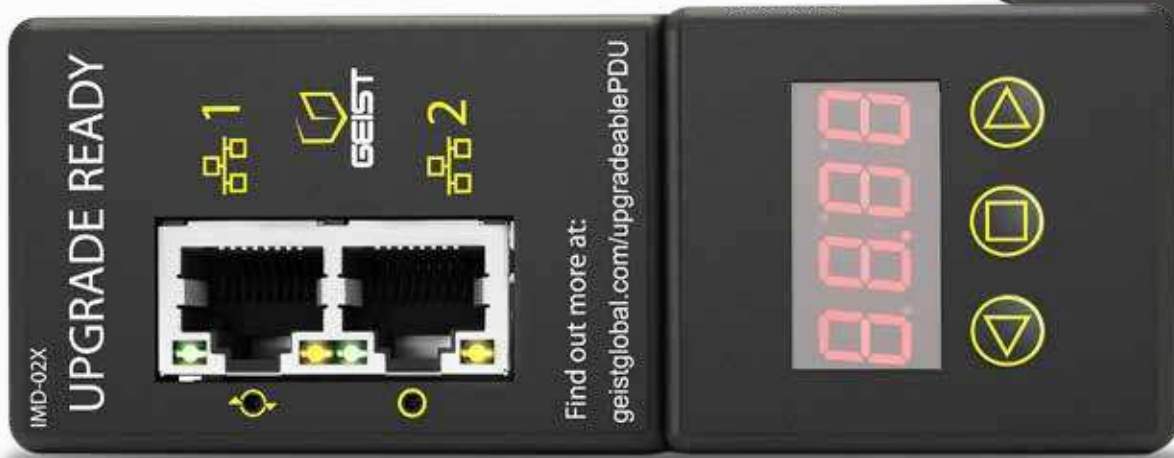
By monitoring these critical variables, data centre managers can evaluate energy usage trends and ensure maximum uptime.

Racknet Enabled — The IMD-02XV easily integrates with Racknet — Geist's DCIM software. Racknet

(purchased separately) collects and reports critical power and environmental data for multiple PDUs in one, user configurable interface. Users gain immediate remote access to trends, alarms and histories of devices in the data centre through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact us for more details.

Product Summary

Interchangeable Monitoring Device, Power Monitoring, Phase (X, Y, Z) Monitoring (A, V, W, VA, kWh, PF) Phase Power Measurements Compliant with ANSI C12.1 and IEC 62053-21 at 1% Accuracy Class Requirements, Circuit/ Breaker Monitoring (A), Circuit/Breaker Current Measurements Independently Tested and Verified at 2% Accuracy.

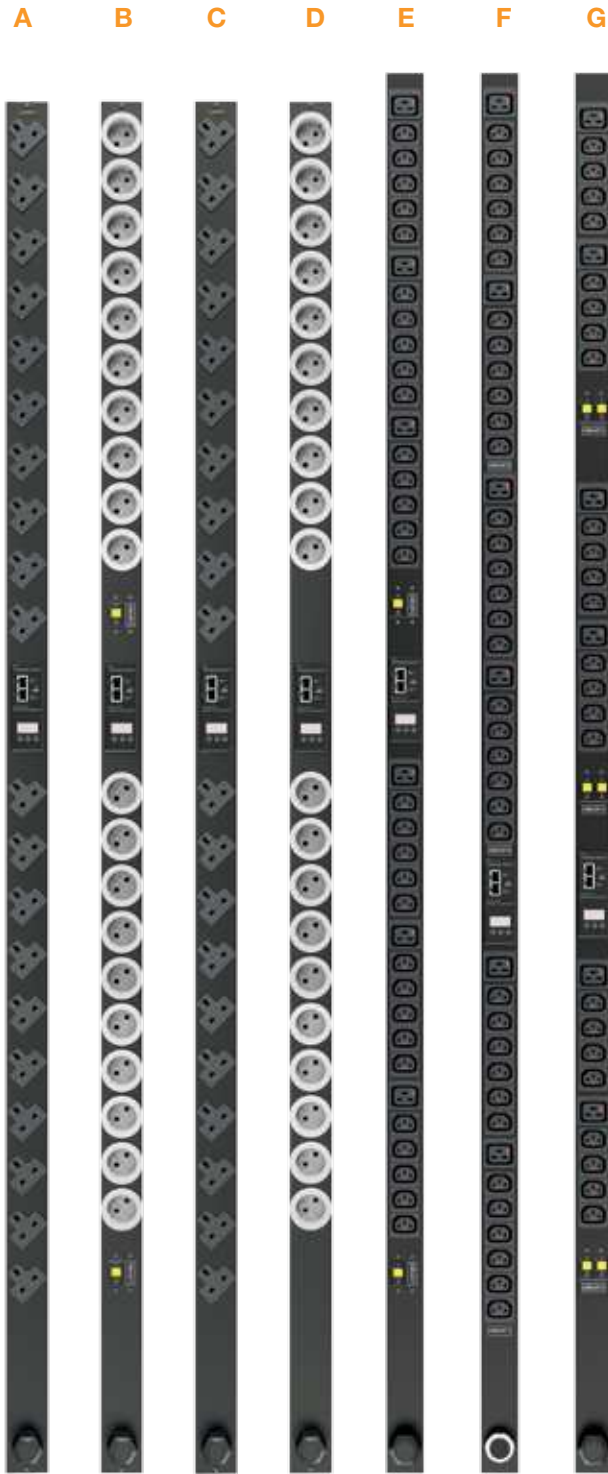


Upgradeable Local and Remote Power Monitoring



Key	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
Power + Remote Sensing - IMD2									
A	GI29996	32A	230V	7.3kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
B	GI29997	32A	230V	7.3kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
C	GI29998	16A	230V	3.6kW	2P+E (IP44)	20 x BS1363	Dual 10/100 Mbps Ethernet	61.25in & 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
D	GI29999	16A	230V	3.6kW	2P+E (IP44)	20 x Schuko	Dual 10/100 Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
E	GI20003	32A	230V	7.3kW	2P+E (IP44)	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
F	UI20004	16A	230/400V	11.0kW	3P+N+E (IP44)	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
G	GI20005	32A	230/400V	22.0kW	3P+N+E (IP44)	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm

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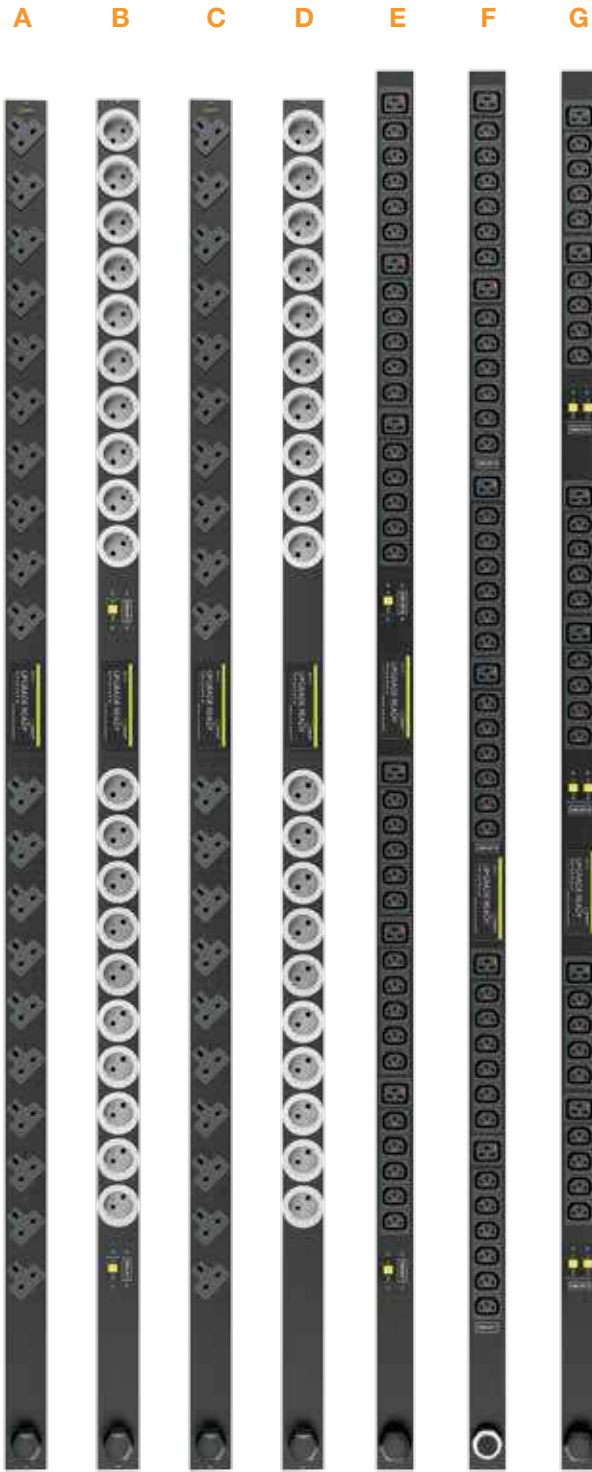
5 YEAR
WARRANTY

Basic - Blanking Panels



Key	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
Power + Remote Sensing - IMD2									
A	GI19986	32A	230V	7.3kW	2P+E (IP44)	20 x BS1363	No	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
B	GI19987	32A	230V	7.3kW	2P+E (IP44)	20 x Schuko	No	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
C	GI19988	16A	230V	3.6kW	2P+E (IP44)	20 x BS1363	No	61.25in and 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
D	GI19989	16A	230V	3.6kW	2P+E (IP44)	20 x Schuko	No	61.25in & 64.75in 1556mm and 1645mm	70in x 2.17in x 2in 1778mm x 55mm x 51mm
E	GI10003	32A	230V	7.3kW	2P+E (IP44)	30 x locking C13 / 6 x locking C19	No	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
F	UI10004	16A	230/400V	11.0kW	3P+N+E (IP44)	36 x locking C13 / 6 x locking C19	No	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm
G	GI10005	32A	230/400V	22.0kW	3P+N+E (IP44)	24 x locking C13 / 6 x locking C19	No	61.25in and 64.75in 1556mm and 1645mm	72in x 2in x 2in 1828mm x 50mm x 50mm

Additional configurations available. See them all at geistglobal.com/upgradeablePDU.



5 YEAR
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Inline Upgradeable Local and Remote Power Monitoring

Upgradeable Inline Monitoring

Basic PDUs not equipped with power monitoring can be retrofit with Geist's Upgradeable inline monitor. Simply insert the device between the PDU and the power source to measure and display data locally and remotely.

This is the ideal solution for facilities that do not want to replace their entire arsenal of non-intelligent PDUs, but want power monitoring capabilities. Local current monitoring supplies instant feedback, ideal for equipment moves, adds

and changes. With remote current monitoring, data center managers can receive early notification of current threshold breach, preventing unnecessary downtime. Data from remote current monitoring can be accessed through any Web browser, and no external software is needed. Data can also be integrated into Simple Network Management Protocol (SNMP) systems for remote notification, and the user-friendly graphical user interface (GUI) allows managers to quickly find pertinent information.

KEY	Part Number	Amps	Volts	kW	Plug Style	Socket Type and Count	Network Port	Remote Sensor Port	Toolless Mounting (Inches & mm)	Chassis Dimension (Inches & mm)
Inline Upgradeable Local and Remote Power Monitoring + Remote Sensing										
A	UI20020	16A or 20A	100-240V	1.9-4.0kW	C20	Locking C19	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
B	GI20055	16A	230V	3.6kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
B	GI20056	16A	230/400V	11.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
C	GI20059	32A	230V	7.3kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 89mm
C	GI20060	32A	230/400V	22.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	Yes	14in 355mm	17in x 1.715in x 3.5in 432mm x 44mm x 89mm
Inline Upgradeable Local and Remote Power Monitoring										
D	UI20019	16A or 20A	100-240V	1.9-4.0kW	C20	Locking C19	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
E	GI20049	16A	230V	3.6kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
E	GI20050	16A	230/400V	11.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 2.5in 432mm x 44mm x 64mm
F	GI20053	32A	230V	7.3kW	2P+E (IP44)	2P+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 3.5in 432mm x 44mm x 89mm
F	GI20054	32A	230/400V	22.0kW	3P+N+E (IP44)	3P+N+E (IP44)	Dual 10/100 Mbps Ethernet	No	14in 355mm	17in x 1.715in x 3.5in 432mm x 44mm x 89mm



Inline Upgradeable Local and Remote Power Monitoring + Remote Sensing

A



B



C



Inline Upgradeable Local and Remote Power Monitoring

D



E



F





Geist Americas

1821 Yolande Ave.
Lincoln, NE 68521 USA
Tel: 1.800.432.3219
402.474.3400

Geist DCIM

2900 S College Ave, Ste. 2B
Fort Collins, CO 80525 USA
Tel: 877.449.4150

Geist Asia

China

Tiley Plaza Bldg A, Unit #2910,
No.199 Haide 3 Road
Nanshan, Shenzhen
Guangdong Province, China
Postal Code 518000

Tel: +86.755.86639505

Hong Kong

salesasia@geistglobal.com
Tel: +852.8176.4860

Geist Europe

United Kingdom

Unit 1, The Monarch Centre,
Venture Way
Priorswood, Taunton
Somerset, TA2 8DE UK
Tel: +44 (0)1823.275100



geistglobal.com