

GEIST

Future Thinking • Solutions Today



UPGRADEABLE
PDU



GEIST
POWER | Upgradeable

Geist Upgradeable power strips give data center 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, air flow, humidity and dew point with the use of a Geist remote sensor.

Input Power Monitoring 1% Accuracy (ANSI and IEC standards) – Allows data center 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 Receptacles – Protects against vibration and external elements that can easily dislodge power cords. No special cords 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

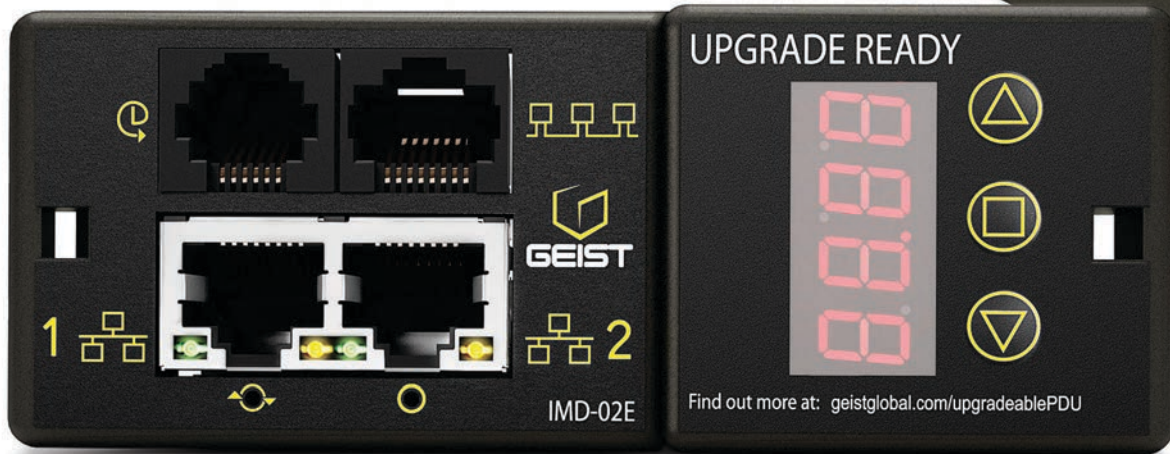
The IMD-02EV Interchangeable Monitoring Device + Remote Sensing delivers a comprehensive view of power usage and environmental conditions in a data center. To be used with the modular design of the Upgradeable PDU, it is a hot-swappable replacement or upgrade solution allowing new technology to be applied 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 center managers can evaluate energy usage trends and ensure maximum uptime. The unit's environmental sensor port also gives data center managers the ability to track critical climate variables like temperature, air flow, 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 center through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact your Geist rep 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.



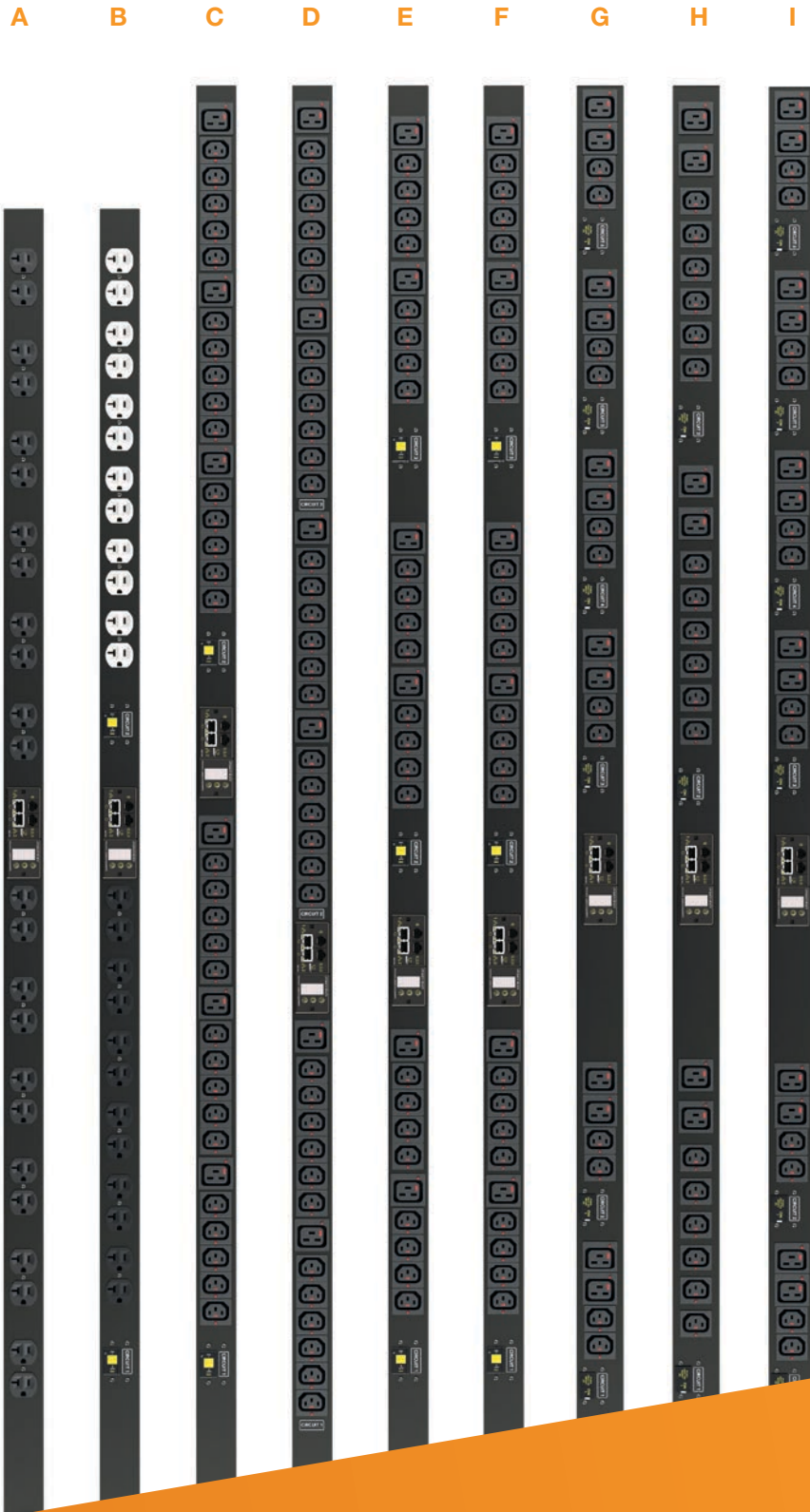
Upgradeable Local and Remote Power Monitoring + Remote Sensing



Key	Part Number	Amps	Volts	kW	Plug Style	Receptacle Type and Count	Network Port	Remote Sensor Port	Toolless Mounting	Chassis Dimension
Power + Remote Sensing - IMD2										
A	I20045	20A	120V	1.9kW	5-20P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	66.25in x 2in x 2in
B	I20046	30A	120V	2.8kW	L5-30P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	66.25in x 2in x 2in
C	I20047	30A	208V	4.9kW	L6-30P	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
D	I20050	20A	120/208V	5.7kW	L21-20P	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
E	I20051	30A	120/208V	8.6kW	L21-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
F	I20052	30A	208V	8.6kW	L15-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2in x 2in
G	I20062	50A	208V	14.4kW	3P+E CA	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2.25in x 3.44in
H	I20058	60A	208V	17.2kW	3P+E (IP44)	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2.25in x 3.44in
I	I20071	60A	208V	9.9kW	2P+E (IP44)	18 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	Yes	61.25in and 64.75in	72in x 2.25in x 3.44in

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 center. 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.

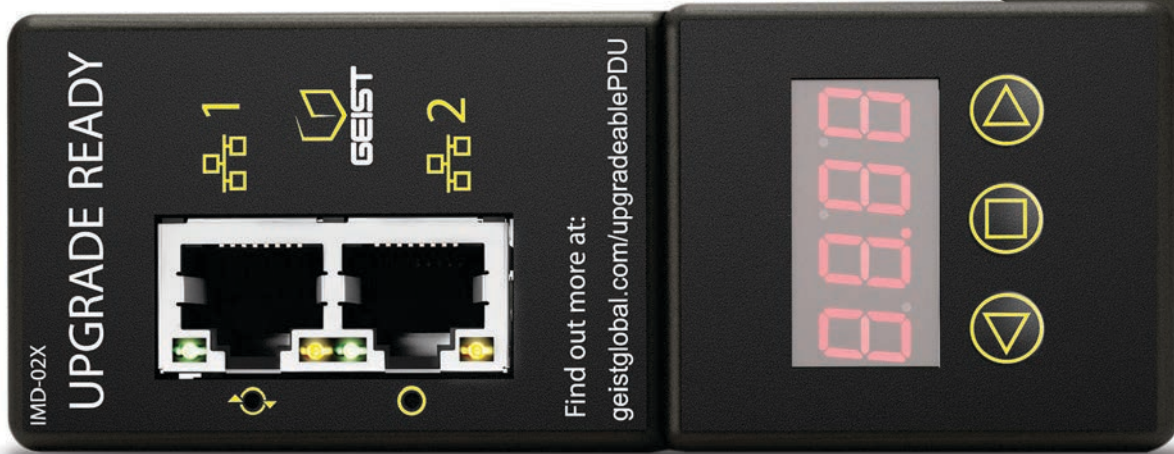
By monitoring these critical variables, data center managers can evaluate energy usage trends and ensure maximum uptime.

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 center through a standard Web browser. Racknet saves both time and cost associated with managing each device individually. Contact your Geist rep 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.



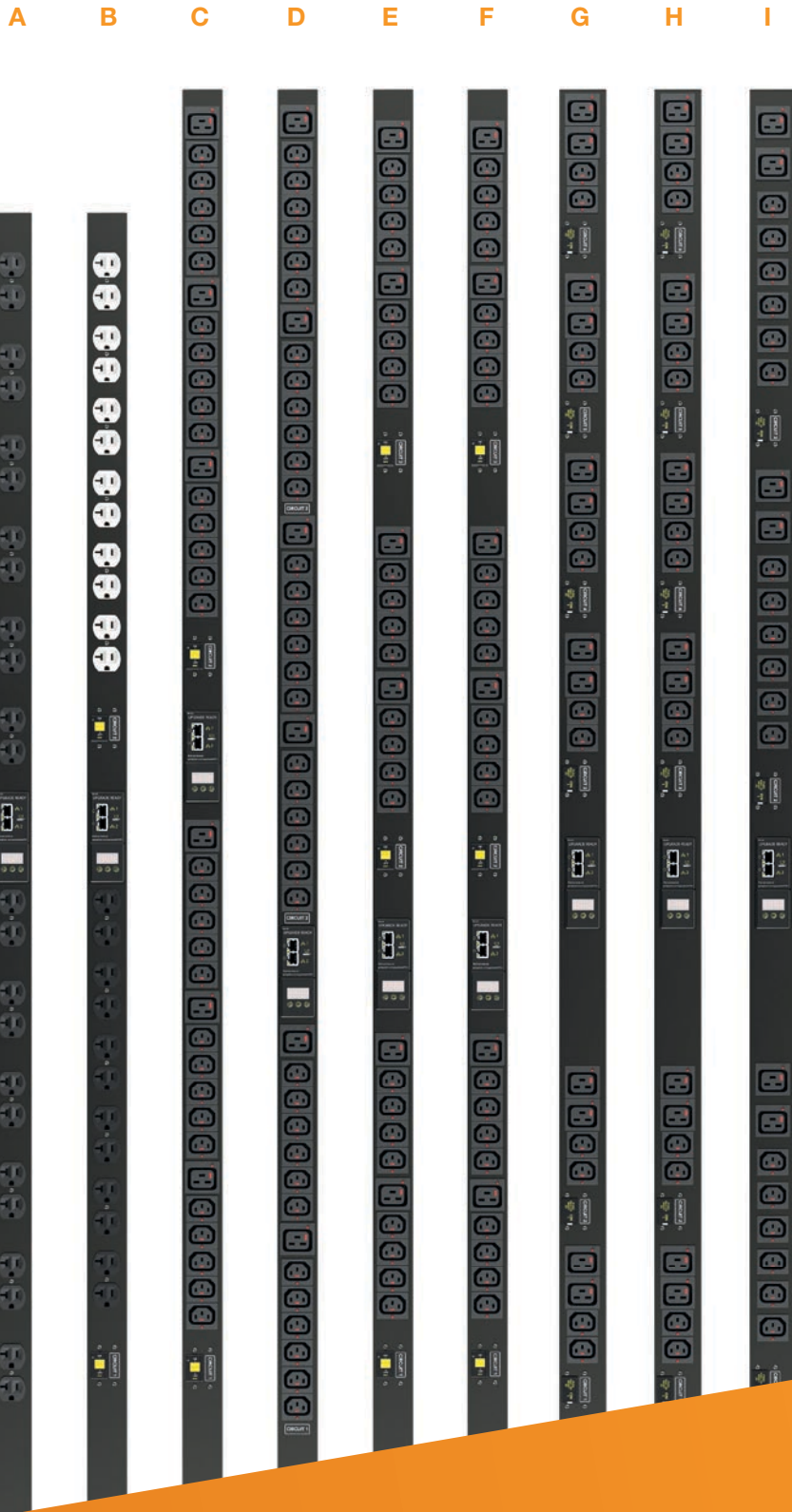
Upgradeable Local and Remote Power Monitoring



Key	Part Number	Amps	Volts	kW	Plug Style	Receptacle Type and Count	Network Port	Toolless Mounting	Chassis Dimension
Power + Remote Sensing - IMD2									
A	I20001	20A	120V	1.9kW	5-20P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	61.25in and 64.75in	66.25in x 2in x 2in
B	I20002	30A	120V	2.8kW	L5-30P	24 x NEMA 5-20R	Dual 10/100Mbps Ethernet	61.25in and 64.75in	66.25in x 2in x 2in
C	I20003	30A	208V	4.9kW	L6-30P	30 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
D	I20006	20A	120/208V	5.7kW	L21- 20P	36 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
E	I20007	30A	120/208V	8.6kW	L21-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
F	I20008	30A	208V	8.6kW	L15-30P	24 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	61.25in and 64.75in
G	I20021	50A	208V	14.4kW	3P+E CA	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
H	I20017	60A	208V	17.2kW	3P+E (IP44)	12 x locking C13 / 12 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in
I	I20030	60A	208V	9.9kW	2P+E (IP44)	18 x locking C13 / 6 x locking C19	Dual 10/100Mbps Ethernet	61.25in and 64.75in	72in x 2in x 2in

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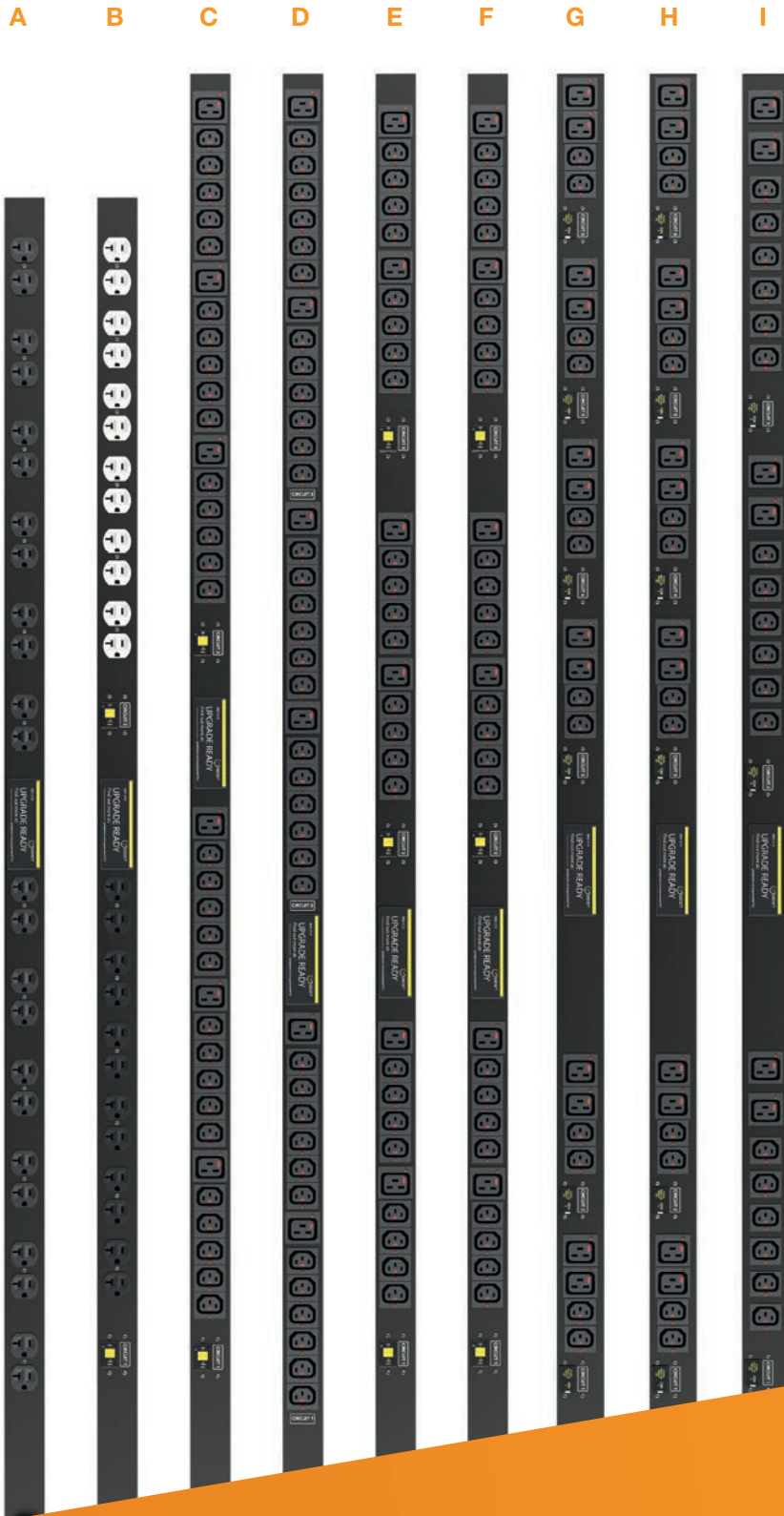
Basic - Blanking Panels



Key	Part Number	Amps	Volts	kW	Plug Style	Receptacle Type and Count	Network Port	Toolless Mounting	Chassis Dimension
Power + Remote Sensing - IMD2									
A	I10001	20A	120V	1.9kW	5-20P	24 x NEMA 5-20R	N	61.25in and 64.75in	66.25in x 2in x 2in
B	I10002	30A	120V	2.8kW	L5-30P	24 x NEMA 5-20R	N	61.25in and 64.75in	66.25in x 2in x 2in
C	I10003	30A	208V	4.9kW	L6-30P	30 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
D	I10006	20A	120/208V	5.7kW	L21-20P	36 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
E	I10007	30A	120/208V	8.6kW	L21-30P	24 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
F	I10008	30A	208V	8.6kW	L15-30P	24 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
G	I10015	50A	208V	14.4kW	3P+E CA	12 x locking C13 / 12 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
H	I10016	60A	208V	17.2kW	3P+E (IP44)	12 x locking C13 / 12 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in
I	I10028	60A	208V	9.9kW	2P+E (IP44)	18 x locking C13 / 6 x locking C19	N	61.25in and 64.75in	72in x 2in x 2in

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**GEIST DELIVERS EFFICIENCY, RELIABILITY
AND EXCELLENT CUSTOMER SERVICE**
WHETHER PROVIDING A SINGLE PDU
OR A FULLY INTEGRATED DATA CENTER
INFRASTRUCTURE SOLUTION.





GEIST
POWER

Geist is known for its PDU pedigree, fast custom delivery and excellent customer service, offering thousands of power strips available in 3-5 days.



GEIST
COOL

Airflow solutions that push the envelope and deliver cost savings of 40% over conventional data center cooling, including network switches and closets.



GEIST
MONITOR

Monitor and track critical environmental points in data centers to produce an efficient and well-maintained environment; maximizing uptime.



GEIST
DCIM

Provide a single pane of glass to real-time monitoring, predictive future capacity, and workflow management to maximize efficiency and optimize costs.



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