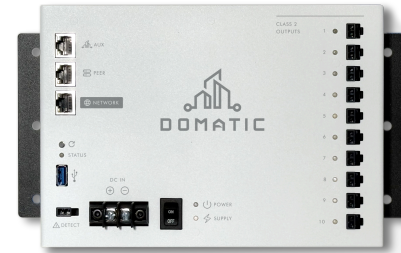


PowerHub-10

DOM-H-2 | 10× Class 2 Outputs | 1000 W | 48 VDC

The PowerHub-10 is the 10-port controller for the Domatic Bus. Field drivers and fixtures connect through 10 NEC Class 2 output ports — each delivering up to 100 W of combined power and data over a single 2-wire CL2 cable, for a hub total of 1000 W. Ethernet ports (WAN / LAN / PEER) provide cloud, local-network, and inter-hub connectivity; a USB 3.0 port supports peripherals; per-port LED indicators expose link state at a glance; and on-board AC power loss detection enables automatic emergency-lighting transitions. The PowerHub is designed to mount inside a low-voltage cabinet and powered from a single 48 VDC supply.



Key Features

- ✓ 10× NEC Class 2 output ports — up to 100 W per port, 1000 W per hub
- ✓ Per-port automatic shutoff for fault containment
- ✓ Per-port LED indicators for link / fault visibility at a glance
- ✓ Three RJ45 Ethernet ports — WAN (cloud / building network), LAN (local devices), PEER (link multiple hubs)
- ✓ PEER linking lets multiple hubs act as one larger controller for floors / buildings exceeding 1000 W
- ✓ USB 3.0 port for peripherals — chime speaker, WiFi / Bluetooth module, alternate power detector
- ✓ On-board AC power-loss detection triggers emergency-lighting mode
- ✓ Cabinet-mountable steel / aluminum chassis, flange-mounted for vertical or horizontal orientation
- ✓ UL 62368-1 certified

Electrical Specifications

Input

Input Voltage	40 – 60 VDC
Nominal Voltage	48 VDC
Max Input Current	26 A
Source	External 48 VDC AC/DC or DC/DC converter, sized for downstream load (typically 1 kW per hub)
NEC Classification	Class 1 input

Output

Output Voltage	38 – 60 VDC
Output Ports	10× independent NEC Class 2 ports
Max Power per Port	100 W

Max Total Output Power	1000 W per hub
Per-Port Protection	Automatic shutoff on fault
NEC Classification	Class 2 output

I/O Configuration

I/O	Connector	Description
Class 2 Outputs (×10)	Molex Mini-Fit	NEC Class 2, 48 VDC. Up to 100 W per port, 1000 W total per hub, with automatic shutoff.
48 VDC Input	Molex Super Sabre	NEC Class 1, 48 VDC. Up to 26 A.
AC Detect	Molex Mini-Fit	Detects transition to backup power; engages emergency mode.
WAN	RJ45	Connection to building network and Domatic Cloud. 10/100/1000 Base-T. Configured via DHCP. Must route to Internet.
LAN	RJ45	Additional Ethernet devices on the same local network.
PEER	RJ45	Combines hubs together to act as a single controller for a control area – used when more than 1000 W is required. Fast Ethernet.
USB	USB 3.0	External peripherals such as USB chime speaker, WiFi / Bluetooth module, alternate power detector.

Mechanical Specifications

Dimensions	270 mm × 160 mm × 38 mm
Weight	2 lb 13 oz (≈ 1.3 kg)
Enclosure Material	Steel or aluminum sheet metal
Mounting	Flange mount, vertical or horizontal orientation
Mount Surface	Wood, metal, or plastic – well-supported

Environmental Specifications

Operating Temperature	0 – 40 °C
Humidity	0 – 90% non-condensing
Installation	Indoor only – inside a low-voltage cabinet

Cabling

Cables must be assembled per the manufacturer’s guidelines using the specified tools to ensure system safety and integrity.

Input – 48 VDC supply (Class 1)

Conductors	2 (power + ground)
Wire Gauge	10 AWG (5.3 mm ²), stranded or solid
Cable Type	Plenum or riser
NEC Rating	CL1

Output – Domatic Bus (Class 2)

Conductors	2 (power + ground; network protocol embedded on the same conductors)
Wire Gauge	16 AWG (1.3 mm ²), stranded or solid
Cable Type	Plenum or riser
NEC Rating	CL2
Shielding	Optional
Wire Twist	Recommended

Caution Domatic PowerHub ports use Molex connectors that mate only with other Molex connectors of the same arrangement and keying. **Do not** attempt to plug an incompatible connector into a port or connect an incompatible peripheral. When making any connection, verify the connector latches with a tactile or audible click and confirm by tugging on it.

System Integration

The PowerHub is designed to be mounted inside a low-voltage cabinet such as the Leviton 47605-21E SMC or comparable custom cabinetry. A single hub supports up to 1 kW of load – typically sufficient for floor plans up to two bedrooms.

For larger floor plans (3 – 5 bedrooms or common areas) and for any installation requiring more than 1 kW of total power, multiple hubs can be linked through the PEER Ethernet port using a single Ethernet cable between hubs. Linked hubs operate as a single logical controller for their control area, sharing inter-hub control and monitoring.

An external 48 VDC converter (AC/DC or DC/DC) rated for the downstream load is required. A 1 kW converter typically powers one hub, though a single converter can be shared across multiple hubs in some configurations.

Standards & Compliance

Safety	UL 62368-1
Input	NEC Class 1
Outputs	NEC Class 2
Installation	Indoor low-voltage cabinet

Ordering Information

<i>Model Number</i>	<i>Description</i>
DOM-H-2	PowerHub – 10-Port Domatic Bus Hub, 1000 W, 48 VDC