Digital Power
Flexible Power Solutions



# Broadband Networks Power Solutions

**POWERING BROADBAND CONNECTIONS**

From headend and broadcast centers to connected premises.


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## FROM HEADEND TO ACCESS NETWORKS AND CONNECTED PREMISES




**DISCUSS YOUR SYSTEM REQUIREMENTS**


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# Headend & Broadcast Power

Front-end supplies, multi-output power and redundant switching

## DP1300-4812

### 1300W DC-DC front-end



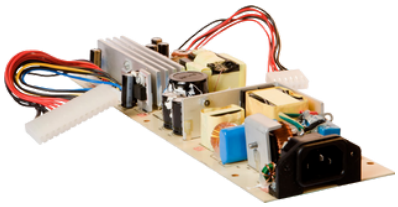
Hot-swap, 1+1 redundancy, remote sense, active current sharing, output OR-ing, PSKILL sequencing and I²C monitoring.

| Input | DC outputs | Cooling | APPLICATION |
|---|---|---|---|
| **-48VDC nominal**<br>**38-72VDC magnitude** | 12V / 106.7A main<br>5V / 4A standby<br>1300W combined, including standby | Internal fans | Telecommunications and -48VDC distributed power systems; redundant hot-swap power shelves; networking, storage and compute platforms; high-current 12V embedded systems and custom OEM power conversion platforms. |

5°C to +40°C continuous; -5°C to +50°C short-term (≤96 consecutive hours). Continuous: up to 1800 m; 5-85% RH. DCOK, DCIN_OK, PSON and LED status.

## USP200-301

### 250W multi-output broadcast power



- Active input power factor correction
- Custom status / monitoring interface
- Open-frame 1 RU integration; rugged mobile-field design

| AC input | Power | DC output rails | Ambient | APPLICATION |
|---|---|---|---|---|
| **95-246VAC** | 250W max. | +5V / 35A<br>+12V / 3A<br>-12V / 0.5A | 0°C to +50°C | Video decoding systems in broadcast / headend centers, mobile electronic news gathering and broadcast control rooms. |

## Broadcast Redundant Dual Power Switcher Modules



Custom automatic transfer between dual AC or DC sources; automatic primary/secondary AC selection. Efficiency >98% over most of the operating range.

| APPLICATION |
|---|
| Content ingest, video storage, streaming and on-demand broadcast systems. |


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# HD Series AC-DC Supplies

Universal 90-264VAC input • 12V, 24V and 48V output options



HD130



HD240



HD500



HD1000



HD1300E



HD1300F

| Series / format | Output | Rated / forced air[1] | Convection[2] | L × W × H (mm) | APPLICATION |
|---|---|---|---|---|---|
| **HD130O / Open frame** | 12/24/48V | 130W / 10CFM | 125W | 76.2 × 50.8 × 29.2 | ITE and networking equipment<br>Communications systems<br>Embedded equipment power |
| **HD130U / U-bracket** | 12/24/48V | 130W / 10CFM | 125W | 80.0 × 59.7 × 36.8 | |
| **HD130E / Enclosed** | 12/24/48V | 130W / 10CFM | 125W | 80.0 × 59.7 × 43.2 | |
| **HD240O / Open frame** | 12/24/48V | 240W / 10CFM | 160/180/180W | 101.6 × 50.8 × 29.5 | |
| **HD240U / U-bracket** | 12/24/48V | 240W / 10CFM | 150/170/170W | 105 × 62 × 39 | |
| **HD240E / Enclosed** | 12/24/48V | 240W / 10CFM | 140/160/160W | 105 × 62 × 43 | |
| **HD500U / U-bracket** | 12/24/48V | 500W / 20CFM | 250/350/350W | 127 × 81.3 × 38.1 | |
| **HD500E / Enclosed** | 12/24/48V | 500W / 20CFM | 200/300/300W | 127 × 81.3 × 48.3 | |
| **HD1000 / Enclosed** | 12/24/48V | 800/1000/1000W | Not specified | 194.5 × 102 × 41 | |
| **HD1300E / U-bracket** | 12/24/48V | Up to 1300W 40CFM; note 3 | 500-650W See note 3 | 198 × 114 × 41 | |
| **HD1300F / Enclosed** | 12/24/48V | Up to 1300W 40CFM; note 3 | Not specified | 224.5 × 114 × 41 | |

1. HD1000 lists rated output; follow its airflow requirements. HD130/240/500 require the stated airflow for full rating. All ratings are subject to input and temperature derating.
2. Slash-separated power values follow the 12V / 24V / 48V order.
3. HD1300E/F: 12V = 1000/1100W at 115/230VAC; 24V/48V = 1300W with 40CFM. HD1300E convection: 12V = 500/550W; 24V/48V = 500/650W. Conduction: 12V = 650/700W; 24V/48V = 700/800W. Paired values are at 115/230VAC.


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# Distributed Access Node Power

Conduction-cooled supplies for broadband access equipment

## DPQ180E-325

### 180W GAP node power supply



A sealed quasi-square-wave converter for cable and telecommunications equipment. Designed for GAP-compliant node housings, with conduction cooling through the baseplate.



- 40-90Vrms quasi-square-wave AC input
- IP67 enclosure; -40°C to +85°C baseplate
- GAP ANSI/SCTE 273-1 compliance
- Operating altitude up to 4000 m AMSL
- 5-95% RH, non-condensing
- 6kV surge immunity (IEC 61000-4-5)

| Parameter | Specification | Condition / option | APPLICATION |
|---|---|---|---|
| **Rated output** | 180W | Maximum total output | DOCSIS, PON and wireless network equipment; cable TV and broadband infrastructure; edge computing. |
| **DC outputs** | +5.75V, +12V, +25V | Option A; Option B: +5.75V, +25V | |
| **Efficiency** | 90% typical | At >75W load; 85% minimum | |
| **Ride-through** | 200ms preferred | 80ms minimum | |

Built-in over-temperature, over/under-voltage, over-current, short-circuit and reverse-polarity protection; auto-restart safety behavior.

#### DPQ NODE INTEGRATION

Conduction-cooled for still-air operation inside a GAP-compliant housing. Thermal pads transfer heat to the node housing.

## QP220 / QP270

### For vCCAP (virtualized Converged Cable Access Platform)



44-95VAC quasi-square-wave input; -40°C to +80°C baseplate. Open-frame, conduction-cooled design with current sharing and hot-swap support.

| Model | Power | DC outputs / cooling | APPLICATION |
|---|---|---|---|
| **QP220-0524** | 220W | +5.6V; +24.8V<br>Conduction | DAA / Remote PHY / Remote MACPHY<br>vCCAP and DOCSIS 3.1 / 4.0<br>Fiber Deep and HFC optical nodes |
| **QP270-0524** | 270W | +5.6V; +24.8V<br>Conduction | |



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NETWORK / NODE POWER

# PS-400X Node Power Supplies

Enclosed multi-output power for HFC optical nodes and CATV amplifiers



PS-4001



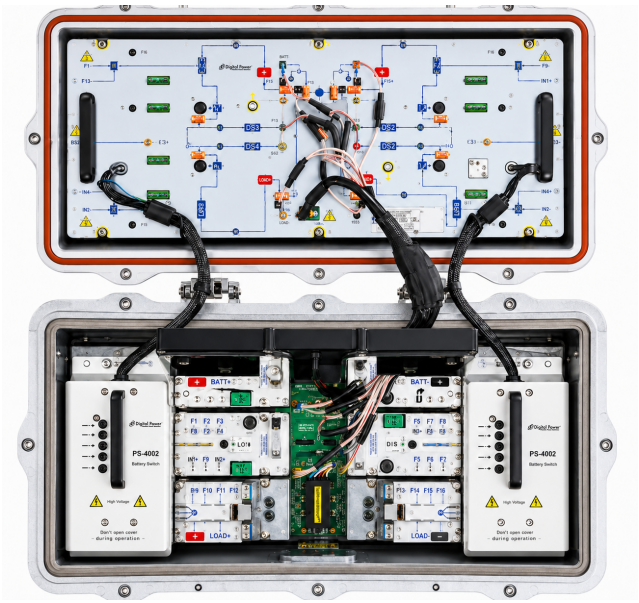
PS-4002 shown



EXAMPLE: OUTDOOR OPTICAL NODE

| Model | AC input | Power | DC output rails | APPLICATION |
|---|---|---|---|---|
| **PS-4001** | 44-95VAC[1] | 124W | +24V / 4A; +5V / 5A<br>+12V / 1A; +3.3V / 6.5A | Enabling flexible field deployment of headend and hub systems for broadcast/narrowcast (BC/NC) amplification, combining, and point-to-multipoint distribution, supporting high-speed Passive Optical Network (PON) and broadband services over long-haul networks. |
| **PS-4002** | 44-95VAC[1] | 87W | +24V / 3.6A; +5V / 3.0A | |
| **PS-4003** | 90-250VAC | 87W | +24V / 3.6A; +5V / 3.0A | |

1. Quasi-square-wave input. Rail maxima are not additive. Observe total rated power and each model's loading limits.



PS-400X SYSTEM INTEGRATION



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CUSTOMER PREMISES EQUIPMENT (CPE)

# Power for Connected Premises

Embedded AC-DC supplies and selected external AC-DC adapters

## HD40 / HD65 / HD80

Compact open-frame supplies • 90-264VAC input • Free-air convection







| Series / power | Output options | L × W × H (mm) | APPLICATION EXAMPLES |
|---|---|---|---|
| **HD40 / 40W** | 12V / 3.333A<br>24V / 1.666A | 76.2 × 38.1 × 22 | ITE and networking equipment<br>Telecommunications hardware<br>A/V and display systems<br>Security and surveillance equipment |
| **HD65 / 65W** | 12V / 5.410A<br>24V / 2.700A | 76.2 × 38.1 × 22 | |
| **HD80 / 80W[1]** | 12V / 6.666A<br>24V / 3.333A | 76.2 × 50.8 × 24 | |

All three: -40°C to +80°C with derating; IEC/EN/UL 62368-1. [1]80W follows the HD80 series and model ratings; confirm the final operating point with DPC.

## External AC-DC adapter selections







| Series / power | Input / outputs | APPLICATION EXAMPLES |
|---|---|---|
| **DPEPU15**<br>**12-15W** | 100-240VAC nominal<br>Factory-set single output | Ethernet hubs, set-top boxes and A/V equipment |
| **DPHPA65A/C**<br>**54-65W** | 70-264VAC[2]<br>8 / 9 / 12 / 15 / 16 / 18 / 19 / 20 / 24 / 28 / 30 / 48V | Telecommunications devices<br>Consumer and office electronics |
| **DPHPA90A/C**<br>**90W** | 70-264VAC[2]<br>12 / 15 / 18 / 19 / 24 / 48V | |

DPEPU15: interchangeable plug, Class II. DPHPA65A/C and 90A/C: C14 (A) / C6 (C) inlet; IEC 62368-1. [2]Input and thermal derating apply; nominal input is 100-240VAC. Select the required voltage, connector and load rating with DPC.


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# Encapsulated AC-DC Power Supplies

Compact power modules for network and embedded equipment

Digital Power's encapsulated PCB-mount power modules combine universal AC input, high isolation and low-noise DC output in a rugged, space-saving design.

## KEY FEATURES

- Fully encapsulated plastic case (UL 94V-0 rated)
- High isolation: up to 4300VAC; Class II construction
- EMC compliant without external components
- Protections: OVP, OCP, SCP and OTP
- UL / IEC / EN 62368-1 safety approved







| Series | Power | Outputs (VDC) | Efficiency | Operating temp. | Highlights |
|---|---|---|---|---|---|
| **DPAOCH10** | 10W | 5 / 12 / 15 / 24 | Up to 86% | -40°C to +70°C | Ultra-compact, low-noise 10W converter |
| **DPAFC20H** | 20W | 5.1 / 12 / 15 / 24 | Up to 86% | -40°C to +70°C | PCB-mount 20W with full protection |
| **DPANCH50** | 50W | 12 / 15 / 24 | Up to 89% | -40°C to +70°C | High-efficiency 50W; screw-terminal option |
| **DPAJCV100** | 100W | 12 / 24 / 48 | Up to 93.5% | -40°C to +85°C | Remote ON/OFF, adjustable output, OVC III |
| **DPAJCV150** | 150W | 12 / 24 / 48 | Up to 93.5% | -40°C to +85°C | 150W high-density module for telecom / industrial use |

## APPLICATION

Telecom and broadband interface cards • IoT and network monitoring equipment
Control and communication modules • Industrial sensors and embedded controllers
Edge or field-mounted electronics in harsh environments



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