

GPON PowerHouse

Robust power system for GPON infrastructure

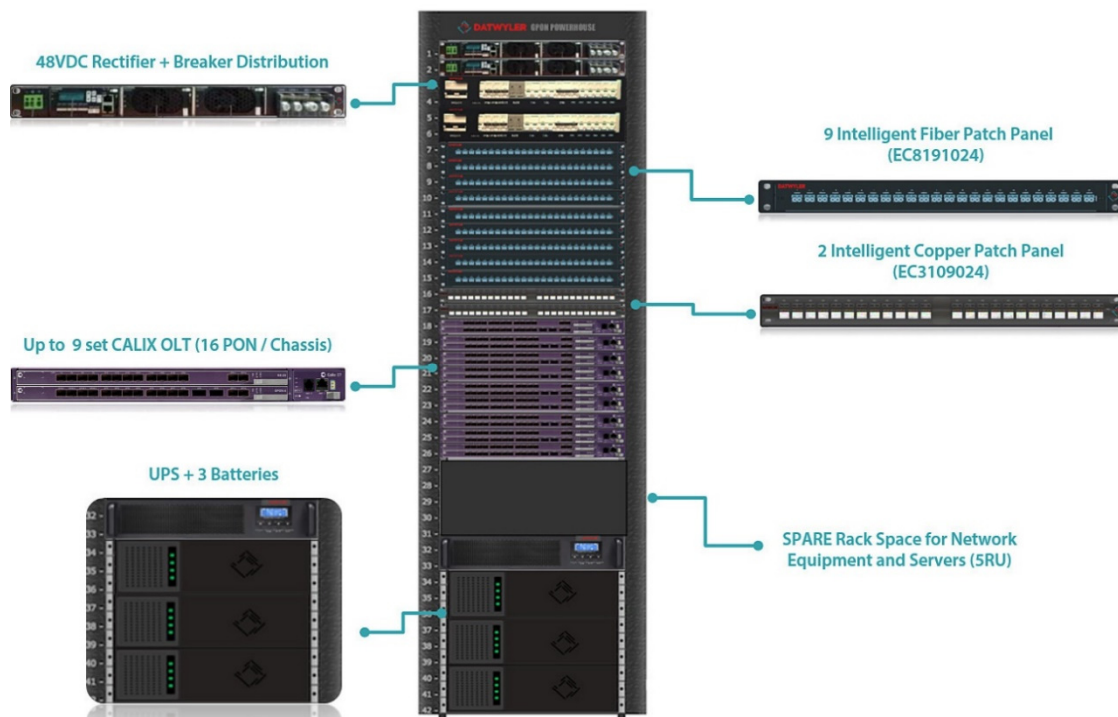


Gigabit Passive Optical Network (GPON) has been revolutionizing the networking industry and delivering differentiated triple play services – voice, data, and video. All services are rapidly migrating to a packet-based architecture. Residential and business services are converging as more subscribers work from home offices. High performance applications demand high performance solutions, in which GPON meets the requirements of Ethernet services access networks. GPON enables service providers to offer new services and market expansion with a flexible, scalable, pay-as-you-grow solution.

As GPON infrastructure is becoming more critical, customers demand high availability and resiliency. Bad power will be a barrier in deploying GPON infrastructure. The cost of downtime from GPON services could range from a few thousands to hundred thousand dollar per hour, depending on business criticality of the organization. Any service provider should address power issue by enhancing their GPON devices with effective and efficient power system. GPON PowerHouse is an innovative infrastructure solution from Datwyler to enable robust power system for GPON infrastructure.

Basic GPON PowerHouse (Type-B) consists of:

- "GPON" optimized 42RU cabinet
600 x 1100 x 2000 mm (W x D x H)
- Redundant DC Rectifier: 48V 60A output
- UPS: 6kVA / 4.8kW
- 1 battery module: 12V 9Ah, 16 cells
- Rack PDU: 16A with output of 10 pieces of C13
- Power Distribution module (breakers)
- Intelligent Fiber Patch Panels (optional)
- Intelligent Copper Patch Panels (optional)

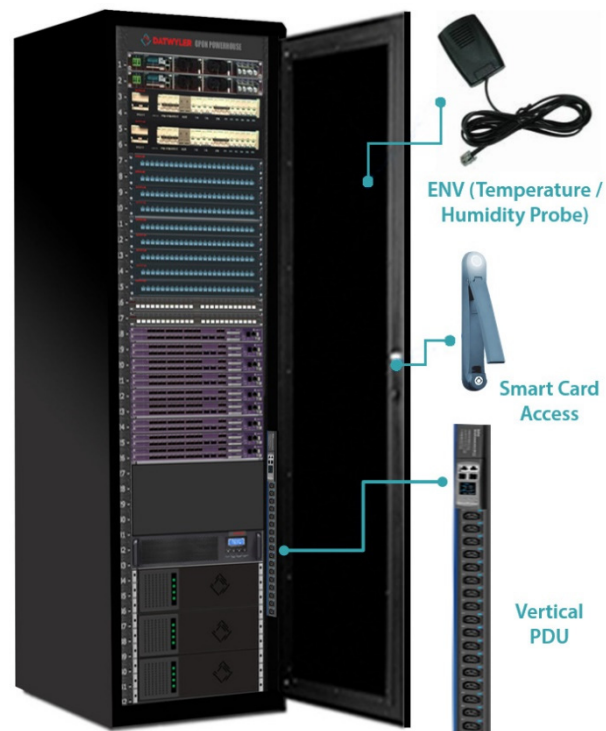
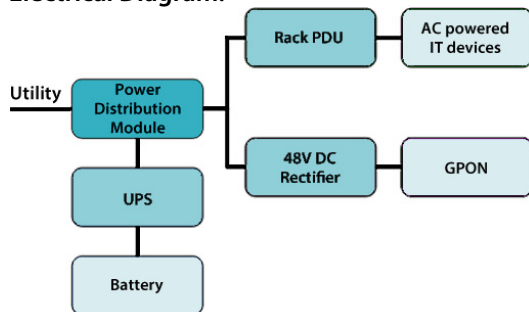


GPON PowerHouse Type-C:

Consists of all items in Type-B plus below items:

- Card Access Control: enables auditing of rack access, web access, remote opening
- Environmental Monitoring System
- Temperature & Humidity Sensor: enables environmental monitoring
- Fire Detection & Gas Suppression system with Novec 1230

Electrical Diagram:



UPS Specifications:

Capacity: 6kVA / 4.8kW	Output Voltage: 220-240VAC
Input voltage: 220-240VAC	Output Frequency range: Synchronous correction range 48-54Hz / 56-64Hz, Battery mode: 50Hz+/-0.1Hz / 60Hz+/-0.1Hz
Input voltage range: 110-300VAC at 50% load, 176-300VAC at 100% load	
Input Frequency range: 40-70 Hz	Dimensions: 438 x 530 x 88 mm
Input Power factor: > 0.99	Weight: 12 kg

DC Rectifier Specifications:

Rating: 48V 60A	Has sleeping mode function to improve system efficiency
Input voltage range: 85-300VAC	Installation method: in 19" rack mount
Efficiency: 96%	Wiring method: front-in and front-out
Working temperature: -40°C to 75°C	Protection level: IP20
Hot swappable modules for easy & convenient maintenance	Dimensions: 442 x 255 x 43.6 mm (1U)
Compact power supply to save space	Weight: 8kg

One rack can support 3 to 5 apartment/condo buildings!

Please contact your local representative who will further discuss your requirements:

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