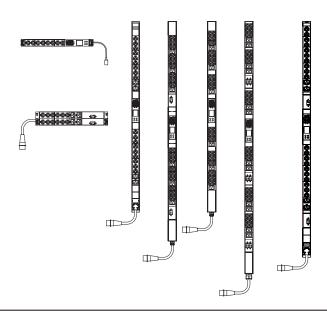


Cat. No(s): 6 460 10/11/12/13/14/15/16



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1. GENERAL CHARACTERISTICS

■ 1.1 Overview

Legrand PDUs are designed for supplying power to active products in 19" enclosures.

They comprise:

- an aluminium casing
- socket modules
- additional functions
- a connection solution
- a mounting solution
- an energy consumption metering solution

Single-phase 230 V - 50/60 Hz or three-phase 400 V - 50/60 Hz power supply

The range features three main product families:

- PDUs designed for horizontal installation (19" PDUs)
- PDUs designed for vertical installation (Zero-U PDUs)
- Accessories

PDUs designed for horizontal installation (19" PDUs)

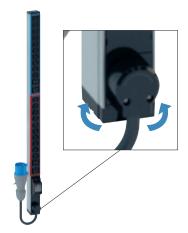
For installation on uprights with fixing centre. Casing height: 1U (6 460 10) or 2U (6 460 11) for compactness. Integrated cable guide. Screwless snap-on fixing. End pieces with 180° reversible metal brackets for vertical mounting capability and adjustable depth.

PDUs designed for vertical installation (Zero-U PDUs)

For vertical installation on the rear of 19 $\!\!\!^{\prime\prime}$ enclosures to save space within the enclosure.

Supplied with 2 sets of metal fixings: buttonhole slots for screwless snap-on fixing, or standard screw-type lugs.

Cable outlet can be rotated 330° to ensure perfect alignment of the power cable (only for Cat. No. 6 460 12).



■ 1.2 Mechanical characteristics

- Casings: Natural anodised aluminium 6060 T5-R19
- Socket modules:

PC/ABS

CW507L (CuZn 36) brass

- Fixing lugs:

DC01-A-m galvanised steel

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■ 1.3 Physical characteristics **Metering module**

Built-in display	Colour LCD screen: voltage, current, or real power (per phase or per circuit breaker) alarms; configuration data (name, position, IP/network data)		
Energy metering	Voltage (V), Amps (A), Power (kW), Real power (kVA), Energy (kWh), Power factor		
Measurement accuracy	ISO/IEC 62053-21 1%		
Metering via input phase	Yes		
Metering via protected circuit	Yes		
Metering via socket outlet	No		
Remote socket switching	No		
Possibility of using environmental sensors	Yes		
Replaceable controller	No		
Compatible sensors	Temperature, Humidity, contact closure (a maximum of 16 sensors can be connected)		
Networking	10/100 BaseT Ethernet port, secondary, redundant 10/100 BaseT Ethernet port		
Remote control	HTTP(s), SSH, Telnet, RS-232 (serial), Power IQ, SNMP version v2/v3, SMTP, JSON-RPC, Modbus over TCP		
Cascade mounting	Yes, a maximum of 16 PDUs can be connected in series by means of a simple Ethernet or USB connection		

■ 1.4 Standards, regulations and tests

Depending on what equipment they comprise, the PDUs comply with the current applicable standards below:

Application	Standard		
C13 and C19 connectors for electrical equipment	IEC 60320-2-2		
Magnetic-hydraulic circuit breaker	IEC 60730-2-9		
Industrial plug	IEC 60309-1		
Data processing equipment	IEC 60950-1		

IP: IP20 for connectors for electrical appliances (C13, C19) IK07

Glow wire test: The sockets of various different standards and other functions that equip the PDUs meet the requirements of their respective standards relating to abnormal heat and fire resistance and comply with the following thresholds:

- Plastic parts in contact with live parts: 750°C.

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- Other plastic parts: 650°C.

Temperature rise: The PDUs comply with the standard temperature rise limit of 45 °C for connectors for electrical appliances (C13, C19).

Final inspection: In accordance with standard requirements and Legrand's own manufacturing requirements, all products undergo production tests, including:

- Electrical continuity to ensure the product is wired correctly
- Dielectric strength at 2000 V to ensure there is no leakage current
- Operating test

Compliance with RoHS and REACH: The PDUs comply with European standards and therefore meet the requirements of the RoHS directive $\,$ (Restriction of Hazardous Substances) and REACH regulations (Registration, Evaluation, Authorisation & restriction of CHemicals).

2. EQUIPMENT AND PERFORMANCE

■ 2.1 Composition of each catalogue number 19" PDUs

	6 460 10	6 460 11	
Number of phases	1	1	
Input voltage	230 V	230 V	
Input current	16 A	32 A	
Maximum power	3.7 kW	7.4 kW	
Connection type	Cable	Cable	
Cable length	3 m	3 m	
Cable material	PVC HO5VVF	Rubber	
Cable cross-section	3G 1.5	3G 4	
Plug type	IEC 60320 C20	IEC 60309 32A	
Cable retention method	Cable clamp + guide	Cable clamp + guide	
Number and type of sockets*	12C13 with locking	12C3 + 4C19 with locking	
Socket outlet colour	Black	Black	
Socket orientation	90°	90°	
Number of circuits per phase	1	2	
Additional functions	Metering module	Metering module + circuit breakers	
Casing type	1U aluminium	2U aluminium	
Fixings (included)	19" reversible bracket + snap-on fixing		

^{*} Sockets are equally distributed on each circuit

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Zero-U PDUs

	6 460 12	6 460 13	6 460 14	6 460 15	6 460 16
Number of phases	1	1	3	3	1
Input voltage	230 V	230 V	400 V	400 V	230 V
Input current	16 A	32 A	16 A	32 A	32 A
Maximum power	3.7 kW	7.4 kW	11.1 kW	22.2 kW	7.4 kW
Connection type	Cable	Cable	Cable	Cable	Cable
Cable length	3 m	3 m	3 m	3 m	3 m
Cable material	Rubber HO7RNF	Rubber HO7RNF	Rubber HO7RNF	Rubber HO7RNF	Rubber HO7RNF
Cable cross-section	3G 2.5	3G 6	5G 2.5	5G 6	3G 4
Plug type	IEC 60309 16A 2P+E	IEC 60309 32A 2P+E	IEC 60309 16A 3P+N+E	IEC 60309 32A 3P+N+E	IEC 60309 32A 2P+E
Cable retention method	Cable clamp + rotatable system	Cable clamp	Cable clamp	Cable clamp	Cable clamp + rotatable system
Number and type of sockets*	18C13 + 4C19 with locking	36C13 + 6C19 with Securelock™	36C13 + 6C19 with Securelock™	36C13 +12C19 with Securelock™	20C13 + 4C19 with locking
Socket outlet colour	Black	Black	Black	Black	Black
Socket orientation	90°	90°/0°	90°/0°	90°/0°	90°
Number of circuits per phase	1	2	1	2	2
Circuit identification (colour coding)		Blue/Red		Blue/Red	Blue/Red
Additional functions	Metering module	Metering module + circuit breakers	Metering module	Metering module + circuit breakers	Metering module + circuit breakers
Casing type	Zero-U aluminium	Zero-U HD aluminium	Zero-U HD aluminium	Zero-U HD aluminium	Zero-U aluminium
Fixings (included)		2 button + 2 stanc	lard brackets, 2 LCS3 b	orackets + 2 screws	•

^{*} Sockets are equally distributed on each circuit

3. FUNCTIONS

■ 3.1 Sockets

Legrand PDUs can be equipped with sockets of different standards.

C13 with or without cable locking system

2P+E 10 A

Socket recess at 90° angle

Conforms to standard IEC 60320-2-2

C19 with or without cable locking system

2P+E 16A

Socket recess at 90° angle

Conforms to standard IEC 60320-2-2

Cable locking system on C13/C19 sockets

The cable is locked mechanically into the socket to prevent any unintended disconnection (caused by maintenance, vibrations, etc.).

Pull-out force > 100 N

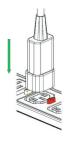
This universal solution is compatible with all cable types available on the market.



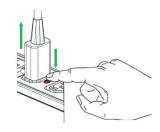












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■ 3.2 Protection devices

Some PDUs incorporate protection devices

- Circuit breakers

For protecting equipment against short-circuits and overloads

16 A magnetic-hydraulic circuit breaker

■ 3.3 Colour coding

The PDUs are colour-coded using coloured edge strips

These strips clip onto the edge of the aluminium casing



This solution is only compatible with Zero-U PDUs

Extruded PVC plastic

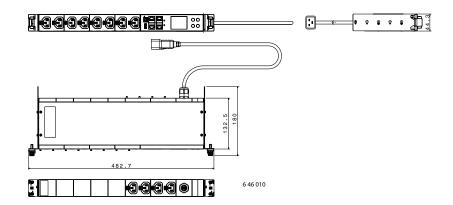
Blue and red available as standard

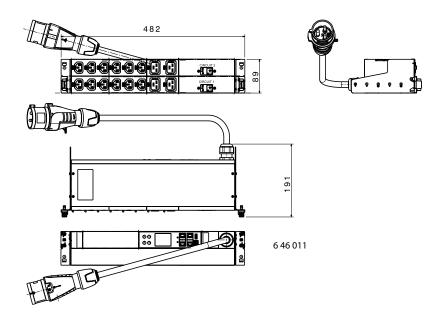
- For identifying circuits: one colour per circuit, to match the same colour used on the circuit breaker



4. DIMENSIONS

4.1 19" PDUS





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4.2 ZERO-U PDUS 6 460 13 6 460 14 6 460 15 6 460 12 6 460 16 59.20 59.20 52.00 52.00 1298.50 1298.50 **⊙ ⊙** ⊗ 1539.00 1475.00 1780.00 ⊕ **0** ⊝ ⊗

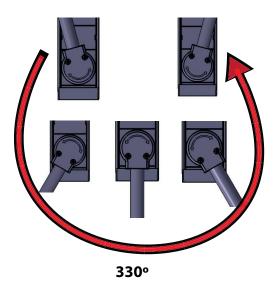
5. INSTALLATION

5.1 CONNECTION

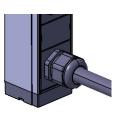
The PDUs are supplied with a power supply cable, see section 2 "Equipment and performance" to see which products have an integrated cable.

6. EXPLANATION OF ROTATABLE CABLE OUTLET, OUTLET WITH CABLE GLAND

The Zero-U PDUs 6 460 12 and 6 460 16 incorporate a rotatable cable outlet (330°)



Other PDUs are supplied with a cable outlet via cable gland (outlet at end for Zero-U and at rear for 19")





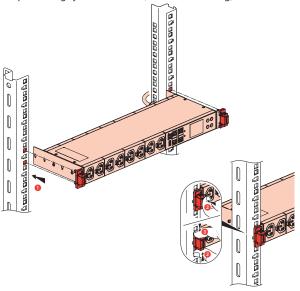
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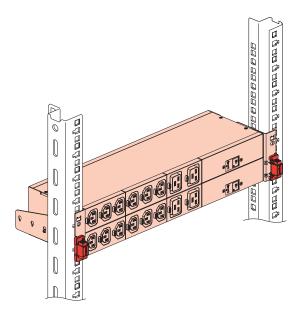
7. MOUNTING SOLUTIONS

1) 19"

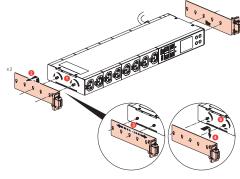
Horizontal mounting with snap-on fixing (for square holes 9.5 x 9.5) Snap-on fixing system included (6 460 10 mounting)

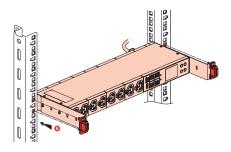


Horizontal mounting with snap-on fixing (for square holes 9.5×9.5) Snap-on fixing system included (6 460 11 mounting)

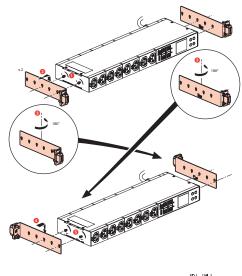


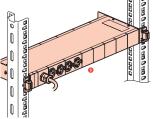






PDU can be turned the other way round



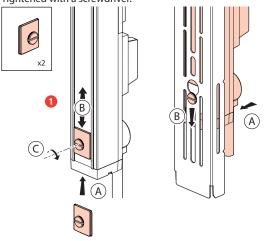


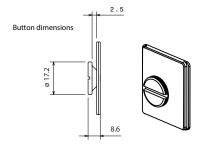
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2) Zero-U

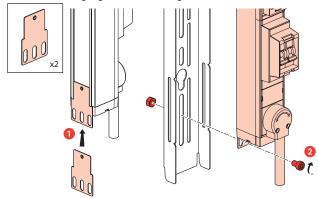
Zero-U PDUs are designed for vertical installation and supplied with 2 sets of fixing accessories:

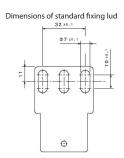
- 2 buttonhole slots: For screwless snap-on fixing. The height of the fixing centre can be set at any point along the full height of the PDU by sliding the buttonhole slots into the groove on the rear of the PDU. Tightened with a screwdriver.



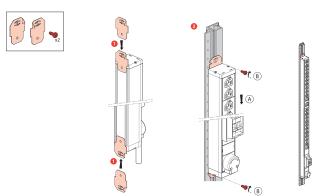


- 2 standard fixing lugs: For screw-fixing (screws not included)

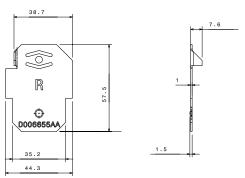




- 2 LCS3 fixing lugs + 2 screws



Dimensions of LCS3 fixing lug



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