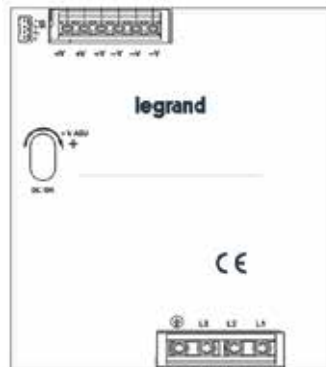


## Stabilised switching mode power supplies three-phase 960 W



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### 1. USE

Switching mode DC power supplies (electronic) for which the output voltage is independent of the fluctuations of the input voltage.

### 2. GENERAL CHARACTERISTICS

Operating frequency: 50/60 Hz  
 Output voltage present indicator  
 Output voltage adjustment potentiometer on front panel  
 Low harmonic pollution, integrated PFC filter  
 Air cooled

Cat. No.	MTBF	
1 466 36	60,000 hours min.	MIL-HDBK-217F (25°C)
1 466 39	60,000 hours min.	

### 3. COMPLIANCE

Conform to standards UL 508, IEC EN 60950-1 and IEC EN 61204-3.  
 Conform to the Low Voltage, EMC and RoHS directives.  
 UL-approved in USA and Canada.

### 4. RANGES/ELECTRICAL CHARACTERISTICS

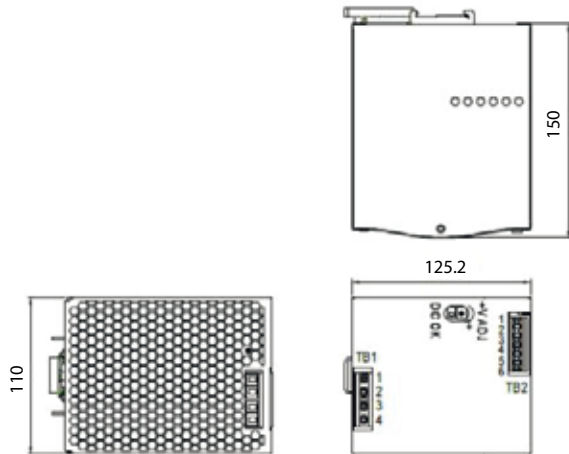
DC output voltage = 24 V or 48 V  
 Aluminium casing  
 Insulation voltage:  
 - Input/output: 3000 V min.  
 - Input/earth: 2000 V min.  
 - Output/earth: 500 V  
 - Output/feedback relay contact: 500 V

Cat. No.	Output				Input		
	Voltage (V)		Nominal current (A)	Nominal power (Pn in W)	Voltage Min. - Max.		Current consumption (A)
	Nominal	Adjustment Range			(VAC)	(VDC)	
1 466 36	24	24 - 28	40	960 (5)	340 - 550	480 - 780	2/1.4 (3)
1 466 39	48	48 - 55	20	960 (5)	340 - 550	480 - 780	2/1.4 (3)

Cat. No.	Efficiency (%)	Starting time at Pn (s)	Holding time at Pn (ms)	Operating temperatures without derating (°C)	Internal consumption (W)
1 466 36	94	1.1/0.9 (3)	12/14 (3)	-30 to +50	61.3
1 466 39	94.5	1.1/0.9 (3)	12/14 (3)	-30 to +50	55.9

(3) 400 VAC/500 VAC

**5. DIMENSIONS AND WEIGHTS**



Cat. No.	Weight (Kg)
1 466 36	2.47
1 466 39	2.47

**6. PROTECTION**

**Integrated protection:**

Protection against overloads: current limitation, disconnection of the power supply above 3 s. To return to service, restore the supply after elimination of the fault.

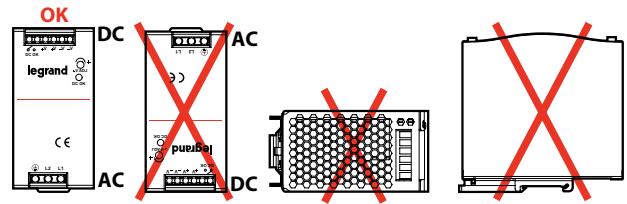
Protection against overvoltages: to return to service, disconnect the power supply, then restore the supply after elimination of the fault.

**Protection devices to be used at the inputs of the power supplies:**

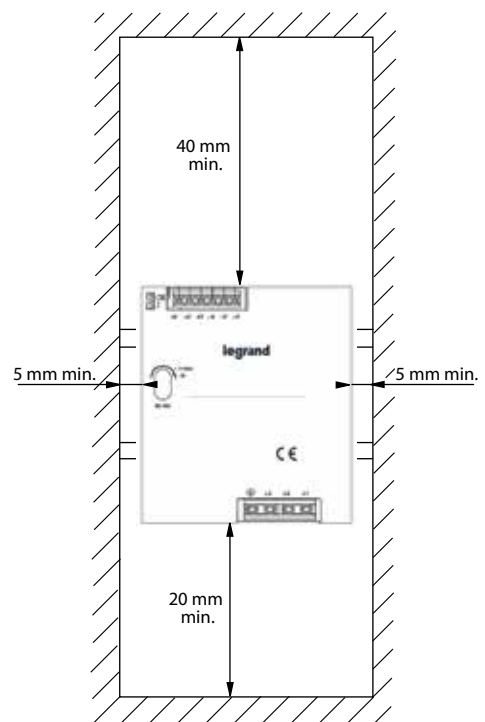
3-PHASE	Cat. No.	Power	Fuse	Circuit breaker	
				Rating	Cat. No.
	1 466 36	960 W	T6, 3A H (500 V)	6 A C curve	4 078 36
	1 466 39				

**7. POSITIONING**

Mounting: power supply in vertical position, input terminals (AC) at the bottom and output terminals (DC) at the top.



Comply with the distances defined below to ensure correct ventilation.

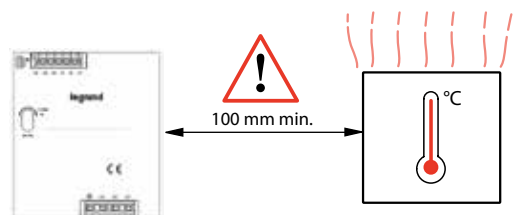


Environmental conditions:

<b>1 466 36/39</b>	50°C max.
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IEC 60664-1 pollution degree	<b>2</b>
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Keep at least 100 mm away from any heat source





**8. CONNECTION**

4 mm flat screwdriver  
Flexible **copper** conductors 4 mm<sup>2</sup>  
Strip the connection cables back 5 mm  
Tightening of the terminals: 1 Nm

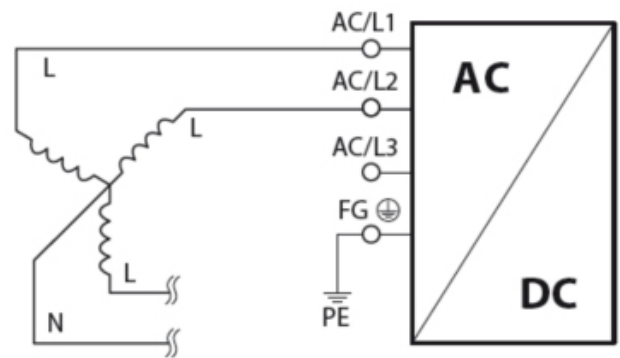
Use cables that can withstand at least 80°C (UL 1007) for UL 508 compliance.

**9. OPERATION**

**DC OK output relay**

DC OK		Max. 60 VDC - 0.3 A/30 VDC - 1 A/30 VAC - 0.5 A Resistive load
DC OK <del>X</del>		

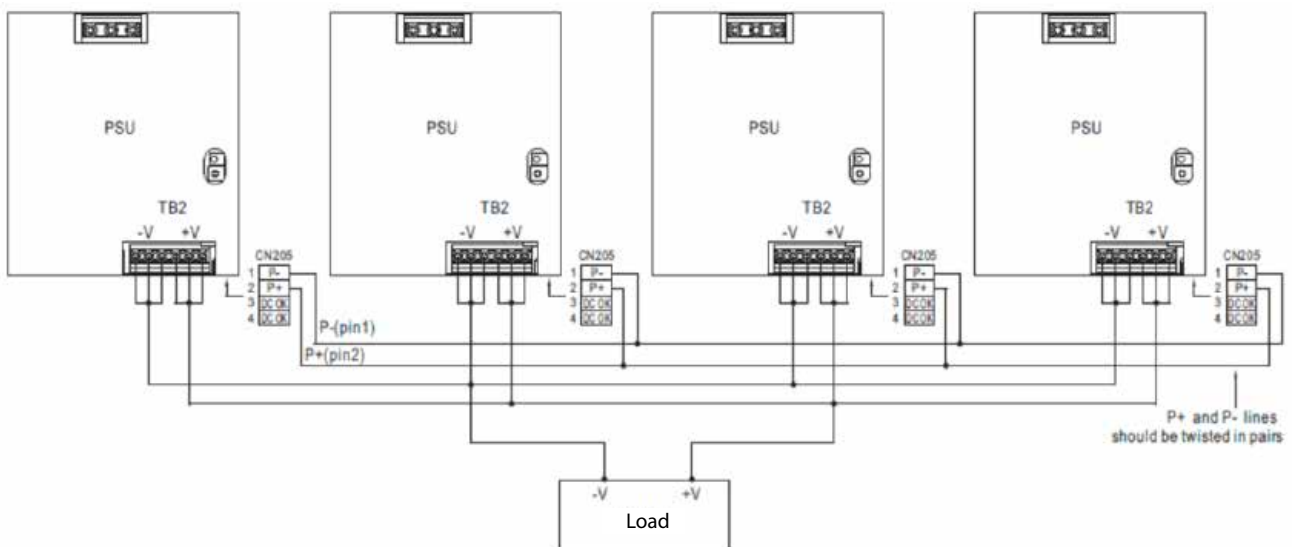
Operation possible on 2 phases:  
Max. 80% of the nominal power



The power supplies can be connected in parallel with the P+ and P- sockets:  
*Maximum four power supplies in parallel*  
*The difference in the output voltages of the power supplies connected in parallel must not exceed 0.2 V*

The P+ and P- conductors must be twisted in pairs

The total output current must not exceed the following value:  
*Nominal current of each power supply x number of power supplies x 0.9*



During parallel operation, the total operating current must be greater than 5% of the nominal operating current (> 5% of the nominal current of each power supply x number of power supplies).  
If this total current is less than 5% of the nominal operating current, it is possible that only one power supply will operate, while the other power supplies switch to standby (their LEDs and relays do not operate).

**10. DERATING CURVES**

