

Stabilised switching mode power supplies single/two-phase 120 W - 480 W Wide input voltage range

Catalogue number(s): **1 466 54/1 466 63/**
1 466 64/1 466 65/1 466 82/
1 466 83/1 466 84



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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, with the option of single or two-phase connection.

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 (from 240 W model upwards)
 Air cooled

Cat. No.	MTBF	
1 466 54	268,000 hours min.	MIL-HDBK-217F (25°C)
1 466 63	268,000 hours min.	
1 466 64	141,000 hours min.	
1 466 65	112,000 hours min.	
1 466 82	268,000 hours min.	
1 466 83	141,000 hours min.	
1 466 84	112,000 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 = 12 V, 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)
				(VAC)	(VDC)	
1 466 54	12	10	120	180 - 550	254 - 780	1.2/0.55 (2)
1 466 63	24	5	120	180 - 550	254 - 780	1.2/0.55 (2)
1 466 64	24	10	240	180 - 550	254 - 780	2/1 (2)
1 466 65	24	20	480	180 - 550	254 - 780	4/1.6 (2)
1 466 82	48	2.5	120	180 - 550	254 - 780	1.2/0.55 (2)
1 466 83	48	5	240	180 - 550	254 - 780	2/1 (2)
1 466 84	48	10	480	180 - 550	254 - 780	4/1.6 (2)

Cat. No.	Efficiency (%)	Starting time at Pn (s)	Holding time at Pn (ms)	Operating temperatures without derating (°C)	Internal consumption (W)
1 466 54	89.5	2.07/2.07 (2)	10/50 (2)	-25 to +50	14.1
1 466 63	91	2.07/2.07 (2)	10/50 (2)	-25 to +60	11.9
1 466 64	91	1.65/0.95 (2)	18/18 (2)	-30 to +50	23.7
1 466 65	92	2.15/0.95 (2)	16/18 (2)	-30 to +50	41.7
1 466 82	92	2.07/2.07 (2)	10/50 (2)	-25 to +60	10.4
1 466 83	91	1.65/0.95 (2)	18/18 (2)	-30 to +50	23.7
1 466 84	92	2.15/0.95 (2)	16/18 (2)	-30 to +50	41.7

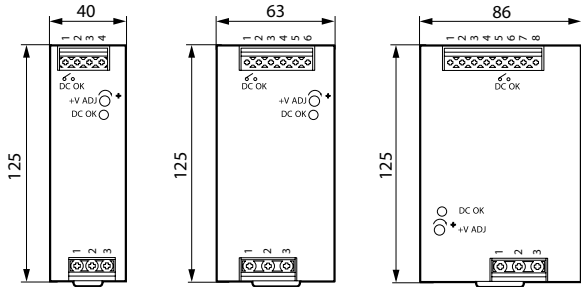
(2) 230 VAC/400 VAC

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5. DIMENSIONS AND WEIGHTS

Cat. Nos 1 466 54/63/82 Cat. Nos 1 466 64/83 Cat. Nos 1 466 65/84



Cat. No.	Weight (Kg)
1 466 54	0.65
1 466 63	0.65
1 466 64	1.06
1 466 65	1.7
1 466 82	0.65
1 466 83	1.06
1 466 84	1.7

6. PROTECTION

Integrated protection:

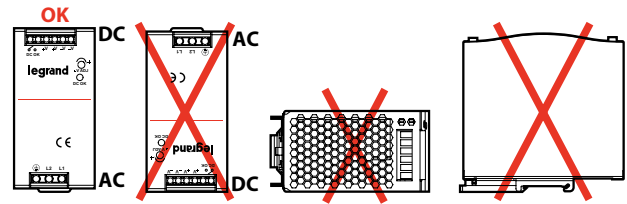
1 466 54 1 466 63 1 466 82	Overload	Current limitation, automatic recovery after elimination of the fault
	Overvoltage	Disconnection of the power supply, then restoration of the supply to restart
	Overheating	Automatic after reduction of the temperature
1 466 64 1 466 83 1 466 65 1 466 84	Overload	Current limitation, disconnection of the power supply above 3s, automatic recovery after 1 min if the fault is eliminated
	Overvoltage	Disconnection of the power supply, automatic recovery after 1 min if the fault is eliminated
	Overheating	Automatic after reduction of the temperature

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

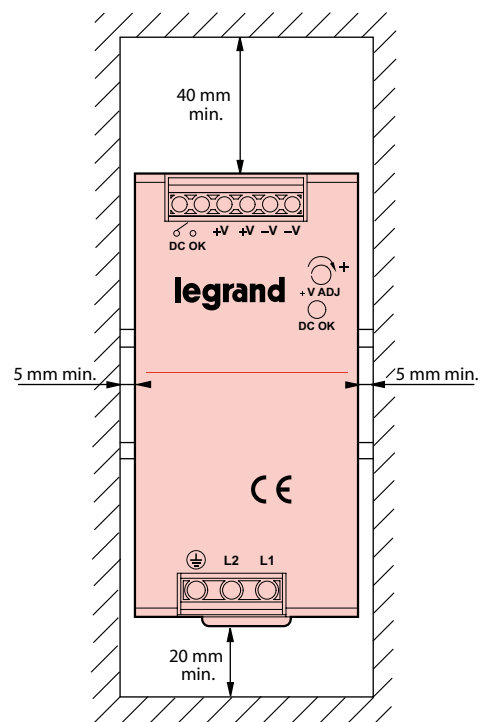
Cat. No.	Power	Fuse	Circuit breaker	
			Rating	Cat. No.
1 466 54	120 W	T4A H (500 V)	4 A C (<400 V)	4 077 79
1 466 63				
1 466 82				
1 466 64	240 W	T6, 3A H (500 V)	6 A C (<400 V)	4 077 80
1 466 83				
1 466 65				
1 466 84	480 W			

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.

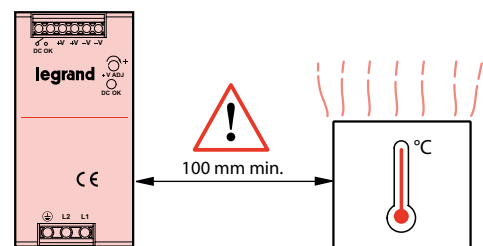


Environmental conditions:

1 466 63/82	60°C max.
1 466 54/64/65/83/84	50°C max.

IEC 60664-1 pollution degree	2
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Keep at least 100 mm away from any heat source

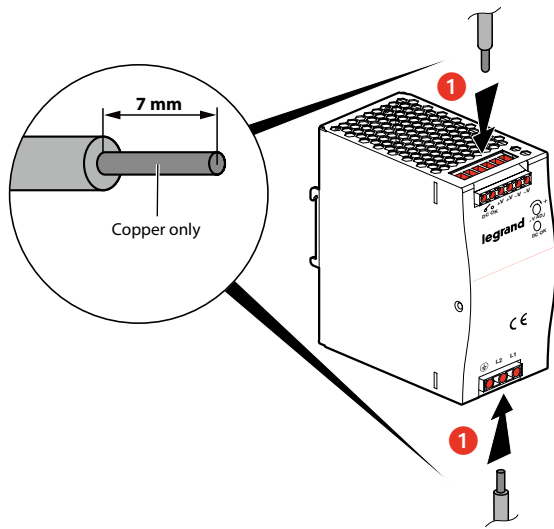


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8. CONNECTION

4 mm, 4.5 mm or 5 mm flat screwdriver, depending on Cat. No.
Flexible **copper** conductors 4 mm²



2		All catalogue numbers	0.8 Nm
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2		1 466 54/63/82	0.5 Nm
		1 466 64/65/83/84	1 Nm

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

9. OPERATION

1 466 64 - 1 466 65 - 1 466 83 - 1 466 84

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		

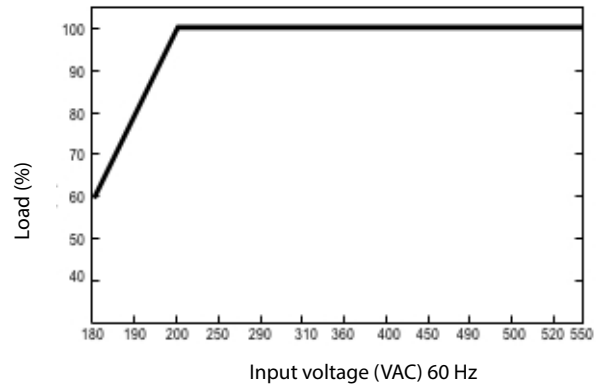
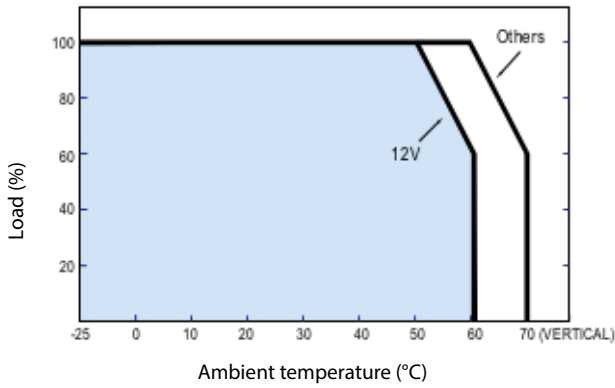
1 466 54 - 1 466 63 - 1 466 82

DC OK output relay

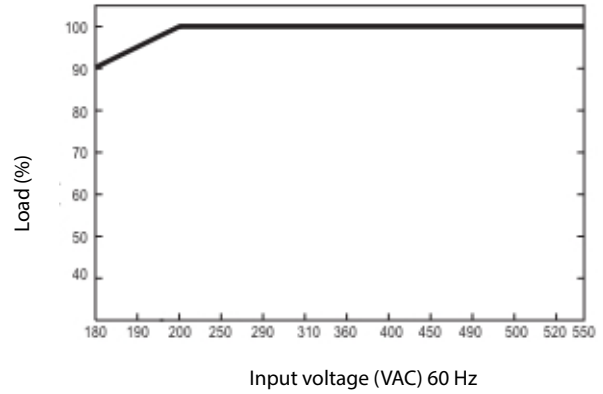
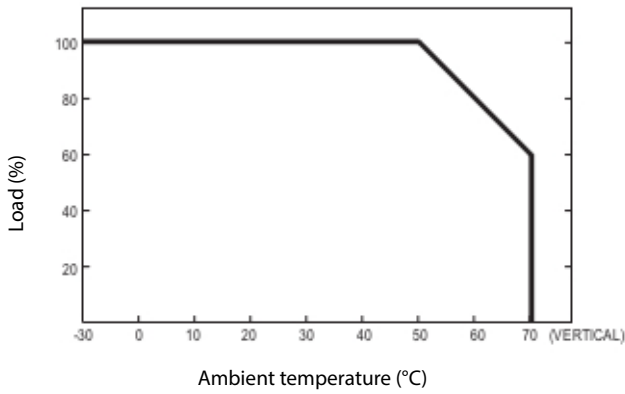
DC OK		Max. 30 VDC - 1 A Resistive load
DC OK		

10. DERATING CURVES

1 466 54 - 1 466 63 - 1 466 82



1 466 64 - 1 466 63 - 1 466 83



1 466 65 - 1 466 84

