

Stabilised switching mode power supplies single phase 20 W - 40 W - 60 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
 No-load power consumption less than 0.75 W
 Air cooled

Cat. No.	MTBF	
1 466 01	240,000 hours min.	MIL-HDBK-217F (25°C)
1 466 02	300,000 hours min.	
1 466 03	300,000 hours min.	
1 466 05	240,000 hours min.	
1 466 06	300,000 hours min.	
1 466 07	300,000 hours min.	
1 466 09	300,000 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
 Plastic casing

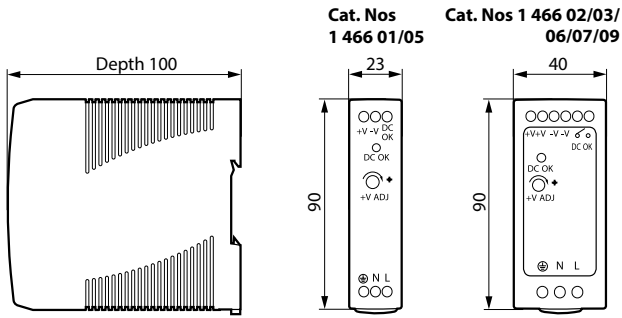
Cat. No.	Output				Input		
	Voltage (V)		Nominal current (A)	Nominal power (Pn in W)	Voltage Min.- Max.		Current consumption (A)
	Nominal	Adjustment range			(VAC)	(VDC)	
1 466 01	12	10.8 - 13.2	1.67	20	85 - 264	120 - 370	0.55/0.35 (1)
1 466 02	12	12 - 15	3.33	40	85 - 264	120 - 370	1.1/0.7 (1)
1 466 03	12	12 - 15	5	60	85 - 264	120 - 370	1.8/1 (1)
1 466 05	24	21.6 - 26.4	1	24	85 - 264	120 - 370	0.55/0.35 (1)
1 466 06	24	24 - 30	1.7	40	85 - 264	120 - 370	1.1/0.7 (1)
1 466 07	24	24 - 30	2.5	60	85 - 264	120 - 370	1.8/1 (1)
1 466 09	48	48 - 56	1.25	60	85 - 264	120 - 370	1.8/1 (1)

Cat. No.	Efficiency (%)	Starting time at Pn (s)	Holding time at Pn (ms)	Operating temperatures without derating (°C)	Internal consumption (W)
1 466 01	80	1.03/0.53 (1)	20/50 (1)	-20 to +50	5.0
1 466 02	86	0.53/0.53 (1)	20/50 (1)	-20 to +60	6.5
1 466 03	86	0.53/0.53 (1)	20/50 (1)	-20 to +55	9.8
1 466 05	84	1.03/0.53 (1)	20/50 (1)	-20 to +50	4.6
1 466 06	88	0.53/0.53 (1)	20/50 (1)	-20 to +60	5.5
1 466 07	88	0.53/0.53 (1)	20/50 (1)	-20 to +55	8.2
1 466 09	87	0.53/0.53 (1)	20/50 (1)	-20 to +55	9.0

(1) 115 VAC/230 VAC

Insulation voltage:
 - Input/output: 3000 V min.
 - Input/earth: 2000 V min.
 - Output/earth: 500 V

5. DIMENSIONS AND WEIGHTS



Cat. No.	Weight (Kg)
1 466 01	0.19
1 466 02	0.3
1 466 03	0.33
1 466 05	0.19
1 466 06	0.3
1 466 07	0.33
1 466 09	0.33

6. PROTECTION

Integrated protection:

Protection against overloads: automatic reset after correction of the fault.

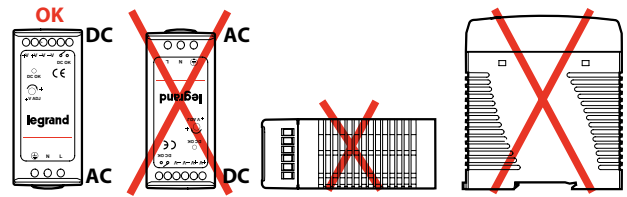
Protection against overvoltages: to return to service, disconnect the power supply, eliminate the fault then restore the supply.

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

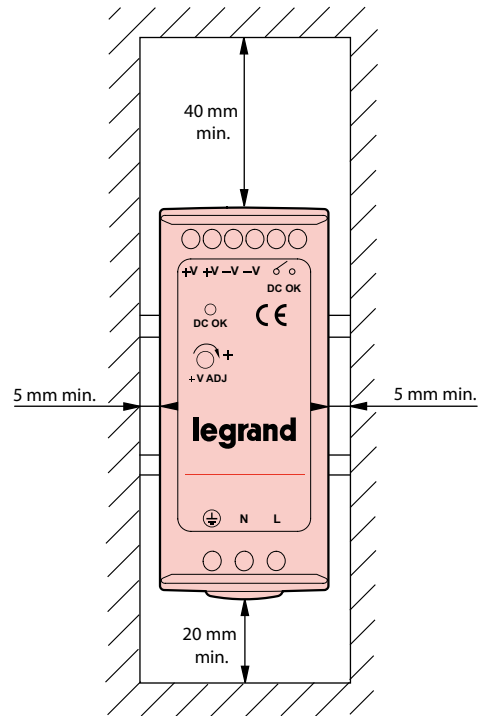
Cat. No.	Power	Fuse	Circuit breaker	
			Rating	Cat. No.
1 466 01	20 W	T2A H (250 V)	2 A C	4 076 93
1 466 05	24 W			
1 466 02	40 W	T2, 5A H (250 V)	3 A C	4 076 94
1 466 06				
1 466 03	60 W			
1 466 07				
1 466 09				

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 for correct ventilation.

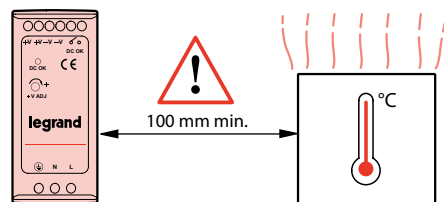


Environmental conditions:

1 466 01/05	50°C max.
1 466 02/06	60°C max.
1 466 03/07/09	55°C max.

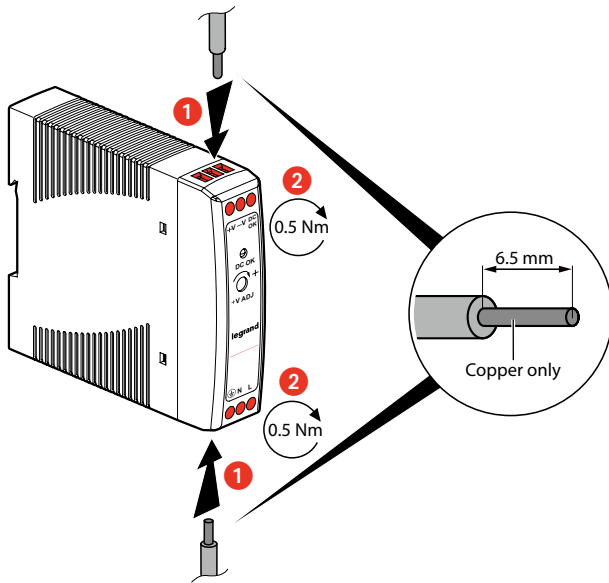
IEC 60664-1 pollution degree	2
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Keep at least 100 mm away from any heat source.



8. CONNECTION

4 mm flat screwdriver
Flexible **copper** conductors 2.5 mm²

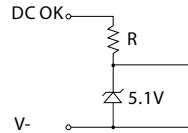


Use cables that can withstand at least 80°C (UL 1007) for UL 508 compliance.

9. OPERATION

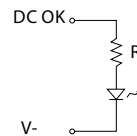
DC OK active signal

5 V signal



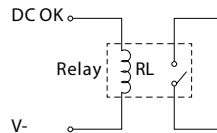
1 466 01	$R \geq 1.5 \text{ k}\Omega$
1 466 05	$R \geq 3.9 \text{ k}\Omega$

LED



1 466 01	$R \geq 2.4 \text{ k}\Omega$
1 466 05	$R \geq 4.7 \text{ k}\Omega$

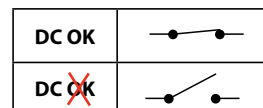
Relay



1 466 01	$RL \geq 700 \Omega$
1 466 05	$RL \geq 1.2 \text{ k}\Omega$

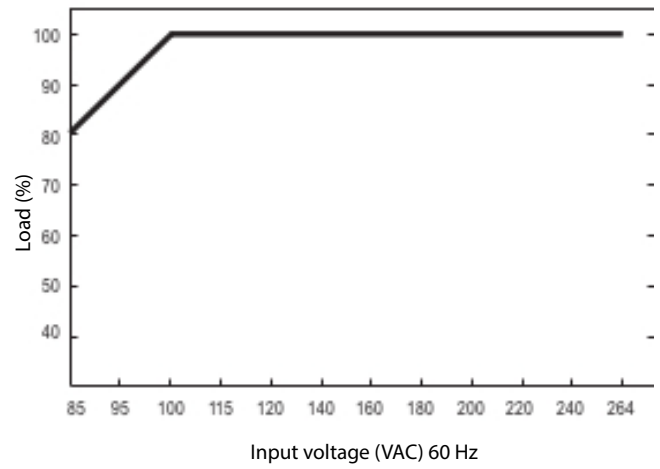
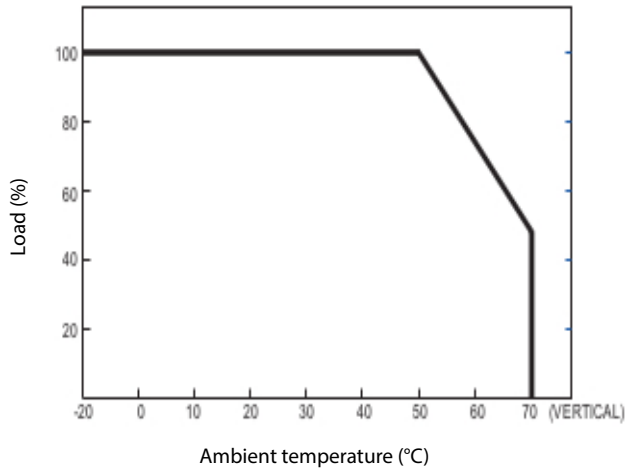
DC OK output relay

1 466 02/03/06/07/09	Max. 30 V/1 A Resistive load
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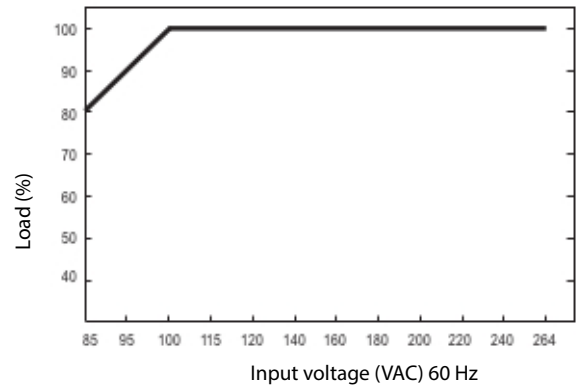
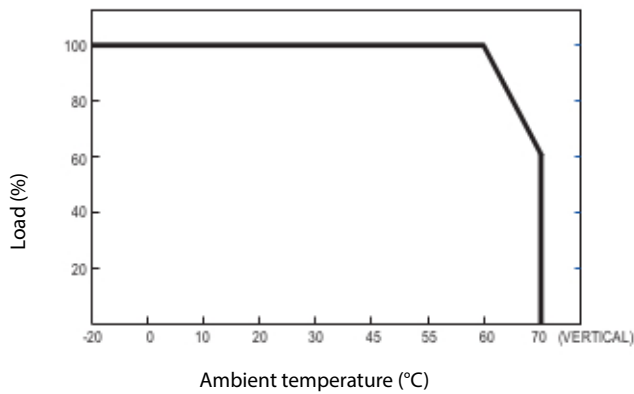


10. DERATING CURVES

1 466 01 - 1 466 05



1 466 02 - 1 466 06



1 466 03 - 1 466 07 - 1 466 09

