

# Power supply - regulated, 30 W

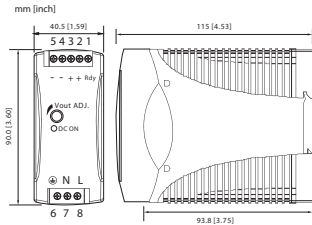
## Primary switchmode power supply, Single-phase, Class 2

Input: Wide range input AC 85 V - 264 V; DC 90 V - 375 V

Output: 5 V / 12 V / 24 V / 48 V - adjustable



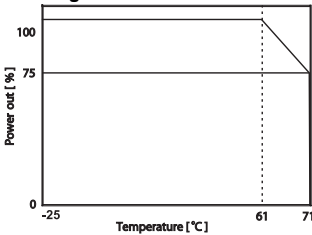
### Dimensions



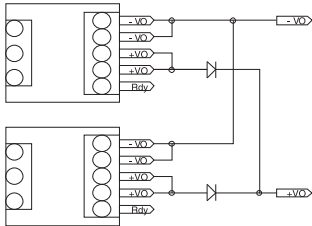
### PIN assignment



### Derating



### Parallel mode



Description	Part-No.	Type	PU	
<b>Screw terminal</b>				
Output voltage/current	DC 5 V; 6 A	722763	DRA 30-05A	1
	DC 12 V; 2.5 A	722768	DRA 30-12A	1
	DC 24 V; 1.25 A	722753	DRA 30-24A	1
	DC 48 V; 0.625 A	722775	DRA 30-48A	1

Input	DRA 30-05A	DRA 30-12A	DRA 30-24A	DRA 30-48A
Nominal voltage	AC 100-240 V			
Operation voltage range	AC 85-264 V / DC 90-375 V			
Line frequency	47 - 63 Hz			
Rated current	U <sub>i</sub> = AC 115 V: 360 mA / U <sub>i</sub> = AC 230 V: 190 mA			
Inrush current	U <sub>i</sub> = AC 115 V: 20 A / U <sub>i</sub> = AC 230 V: 40 A			
Internal fuse	T2 A / AC 250 V			
External fuse	Mini-circuit breaker: B 3 A			
Power Factor Correction P.F.C.	-			

Output	DRA 30-05A	DRA 30-12A	DRA 30-24A	DRA 30-48A
Rated voltage output	DC 5 V	DC 12 V	DC 24 V	DC 48 V
Rated current output	6 A	2.5 A	1.25 A	0.625
Max. output current	-			
Peak output current	-			
Voltage trim range	5-5.5 V	12/14 V	24/28 V	48/55 V
Accuracy	±1 %			
Line regulation	±0.5 %			
Load regulation	±0.5 %			
Rise time	1 s			
Temperature coefficient	±0.03 % / °C			
Ripple & Noise	<50 mV			
Hold up time	V <sub>in</sub> = 115 V: 20 ms / V <sub>in</sub> = 230 V: 30 ms			
Status indication DC ON LED green	≥4 V	≥9.6 V	≥19.2 V	≥37 V
Status indication DC LOW LED red	-			
Parallel mode	with external diodes			
Efficiency	79 %	84 %	86 %	
Low power loss	8.5 A (AC 230 V)	5.6 A (AC 230 V)	5.5 A (AC 230 V)	4.9 A (AC 230 V)
Rated over load protection	120 - 136 %		110 - 140 %	
Over voltage protection	125-137 %			
Short circuit characteristics	Hiccup-mode			

General				
Switching frequency	approx. 80 kHz			
Insulation voltage input/output	AC 3.0 kV <sub>eff</sub>			
Insulation voltage input / ground	AC 1.5 kV <sub>eff</sub>			
Insulation voltage output / ground	-			
Insulation resistance at DC 500 V	100 MΩ			
Operation temperature range	-25 °C - 70 °C (derating)			
Derating	-2.5 % / °C starting at 60 °C			
Storage temperature range	-25 °C - 85 °C			
M.T.B.F.	551000 h	582000 h	588000 h	609000 h
Relative humidity	20-90% RH			
Dimensions (w x h x d) in mm	40.5 x 90.0 x 115.0			
Cooling	Air convection			
Housing material	Plastic			
Field installation	rail TS 35 (EN 50022)			
Application height	2000 m			
Installation position	vertical			
Protection class	IP 20			
Overvoltage category	II			
Pollution degree	2			
Protection class	-		2	
Weight (kg/piece)	0.290			
Termination	Screw terminal: 0.2-2.5 mm <sup>2</sup>			

Approvals: UL: UL 508 listed; cUL: UL 60950-1, UL 1310 Class 2; TÜV: EN 60950-1, CE: EN 61000-6-3 / EN 55022 Class B, EN 61000-3-2, EN 601000-3-3, EN 55024, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

Monitoring				
DC ON Control (Rdy)	-	Open Collector		-
Switching voltage	-	DC 24 V		-
Switching current	-	≤ 35 mA		-
Switching capacity	-	-		-
Insulation voltage	-	none		-