

Power supply · regulated, 10 W

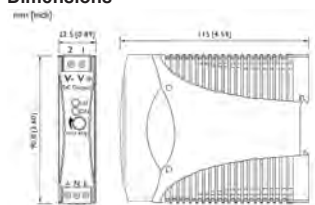
Primary switchmode power supply, Single-phase, Class 2

Input: wide-range input AC 90–265 V, DC 120–370 V

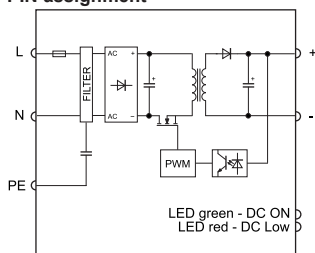
Output: 5 V / 12 V, adjustable



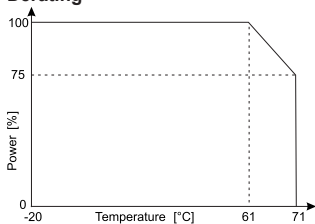
Dimensions



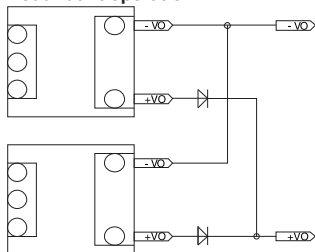
PIN assignment



Derating



Redundant operation



Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 5 V / 2 A	728761	DRA 10-05A	1
	DC 12 V / 0.84 A	728766	DRA 10-12A	1

Input	DRA 10-05A	DRA 10-12A
Nominal voltage	AC 100–240 V	
Operation voltage range	AC 90–265 V / DC 120–370 V	
Line frequency	47 – 63 Hz	
Rated current	U _i = AC 115 V: 120 mA / U _i = AC 230 V: 70 mA	
Inrush current	U _i = AC 115 V: 10 A / U _i = AC 230 V: 18 A	
Internal fuse	T2 A / AC 250 V	
External fuse	Mini-circuit breaker: B 4 A	
Power Factor Correction P.F.C.	–	

Output	DRA 10-05A	DRA 10-12A
Rated voltage output	DC 5 V	DC 12 V
Rated current output	2 A	0.84 A
Max. output current	–	
Short-circuit current	–	
Voltage trim range	4.5–5.75 V	10.8–13.8 V
Accuracy	±1 %	
Line regulation	±1 %	
Load regulation	±2 %	
Rise time	1 s	
Temperature coefficient	±0.03 % / °C	
Ripple & Noise	<50 mV	
Hold up time	V _{in} = 115 V: 25 ms / V _{in} = 230 V: 100 ms	
Status indication DC ON LED green	≥4.5 V	≥10.8 V
Status indication DC LOW LED red	<3.75–4.50 V	<9–10.8 V
Parallel/redundant operation	max. 2 devices / via external diodes	
Efficiency	73 %	75 %
Low power loss	4 A (AC 230 V)	3.4 A (AC 230 V)
Rated over load protection	110–135 %	
Over voltage protection	125–145 %	
Short circuit characteristics	Hiccup-mode	

General	DRA 10-05A	DRA 10-12A
Switching frequency	approx. 100 kHz	
Insulation voltage input/output	AC 3.0 kV _{eff}	
Insulation voltage input / ground	AC 1.5 kV _{eff}	
Insulation voltage output / ground	–	
Insulation resistance at DC 500 V	100 MΩ	
Operation temperature range	–20 °C – 70 °C (derating)	
Derating	–3% / °C starting at 61 °C	
Storage temperature range	–40 °C – 85 °C	
M.T.B.F.	801000 h	803000 h
Relative humidity	20–95% RH, non-condensing	
Dimensions (w × h × d) in mm	22.5 × 90.0 × 115.0	
Cooling	Natural air cooling, 25 mm distance on all sides	
Housing material	Plastic	
Field installation	rail TS 35 (EN 50022)	
Application height	2000 m	
Installation position	vertical	
Protection class	IP 20	
IP rating	II (SELV, PELV)	
Overvoltage category	II	
Pollution degree	2	
Weight (kg/piece)	0.120	
Termination	Screw terminal: 0.2–2.5 mm ² , max. 0.56 Nm	
Approvals	UL: UL 508 listed; cUL: UL 60950-1, UL 1310 Class 2; TÜV: EN 60950-1, CE: EN 50081-1 / EN 55022 Class B, EN 61000-3-2, EN 601000-3-3, EN 50082-1 / EN 55024	

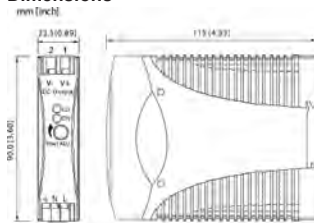
Monitoring	DRA 10-05A	DRA 10-12A
DC ON Control (Rdy)	LED green/red	
Switching voltage	–	
Switching current	–	
Switching capacity	–	
Insulation voltage	–	

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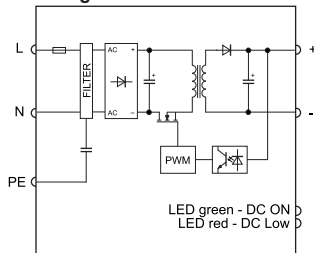
Primary switchmode power supply, Single-phase, Class 2
Input: wide-range input AC 90–265 V, DC 120–370 V
Output: 5 V / 12 V / 15 V / 24 V, adjustable



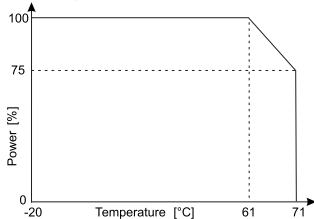
Dimensions



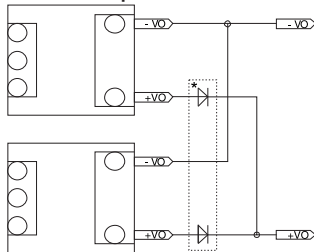
PIN assignment



Derating



Redundant operation



* Redundant Module 722987
 Only use together with 24 V version!

Description	Part-No.	Type	PU	
Spring terminal				
Output voltage/current	DC 5 V / 2 A	722761	DRA 10-05	1
	DC 12 V / 0.84 A	722766	DRA 10-12	1
	DC 15 V / 0.67 A	722773	DRA 10-15	1
	DC 24 V / 0.42 A	722751	DRA 10-24	1

Input	DRA 10-05	DRA 10-12	DRA 10-15	DRA 10-24
Nominal voltage	AC 100–240 V			
Operation voltage range	AC 90–265 V / DC 120–370 V			
Line frequency	47 – 63 Hz			
Rated current	U _I = AC 115 V: 120 mA / U _I = AC 230 V: 70 mA			
Inrush current	U _I = AC 115 V: 10 A / U _I = AC 230 V: 18 A			
Internal fuse	T2 A / AC 250 V			
External fuse	Mini-circuit breaker: B 4 A			
Power Factor Correction P.F.C.	–			

Output	DRA 10-05	DRA 10-12	DRA 10-15	DRA 10-24
Rated voltage output	DC 5 V	DC 12 V	DC 15 V	DC 24 V
Rated current output	2 A	0.84 A	0.67 A	0.42 A
Max. output current	–			
Short-circuit current	–			
Voltage trim range	4.5–5.75 V	10.8–13.8 V	13.5–17.25 V	21.6–28.8 V
Accuracy	±1 %			
Line regulation	±1 %			
Load regulation	±2 %			
Rise time	1 s			
Temperature coefficient	±0.03 % / °C			
Ripple & Noise	<50 mV			
Hold up time	V _{in} = 115 V: 25 ms / V _{in} = 230 V: 100 ms			
Status indication DC ON LED green	≥4.5 V	≥10.8 V	≥13.5 V	≥21.6 V
Status indication DC LOW LED red	<3.75–4.50 V	<9–10.8 V	<11.25–13.5 V	<18–21.6 V
Parallel/redundant operation	max. 2 devices / via external diodes			
Efficiency	73 %	75 %	76 %	77 %
Low power loss	4 W (AC 230 V)	3.4 W (AC 230 V)	3.3 W (AC 230 V)	2.8 W (AC 230 V)
Rated over load protection	110–135 %			
Over voltage protection	125–145 %			
Short circuit characteristics	Hiccup-mode			

General	DRA 10-05	DRA 10-12	DRA 10-15	DRA 10-24
Switching frequency	approx. 100 kHz			
Insulation voltage input/output	AC 3.0 kV _{eff}			
Insulation voltage input / ground	AC 1.5 kV _{eff}			
Insulation voltage output / ground	–			
Insulation resistance at DC 500 V	100 MΩ			
Operation temperature range	-20 °C – 70 °C (derating)			
Derating	-3% / °C starting at 61° C			
Storage temperature range	-25 °C – 85 °C			
M.T.B.F.	801000 h	803000 h	805000 h	808000 h
Relative humidity	20–95% RH, non-condensing			
Dimensions (w × h × d) in mm	22.5 × 90.0 × 115.0			
Cooling	Natural air cooling, 25 mm distance on all sides			
Housing material	Plastic			
Field installation	rail TS 35 (EN 50022)			
Application height	2000 m			
Installation position	vertical			
Protection class	IP 20			
IP rating	II (SELV, PELV)			
Overvoltage category	II			
Pollution degree	2			
Weight (kg/piece)	0.120			
Termination	Spring terminal: 0.2–2.0 mm ²			
Approvals	UL: UL 508 listed; cUL: UL 60950-1, UL 1310 Class 2; TÜV: EN 60950-1, CE: EN 50081-1 / EN 55022 Class B, EN 61000-3-2, EN 601000-3-3, EN 50082-1 / EN 55024			

Monitoring	DRA 10-05	DRA 10-12	DRA 10-15	DRA 10-24
DC ON Control (Rdy)	LED green/red			
Switching voltage	–			
Switching current	–			
Switching capacity	–			
Insulation voltage	–			