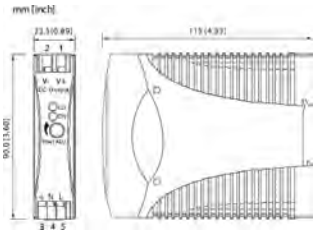
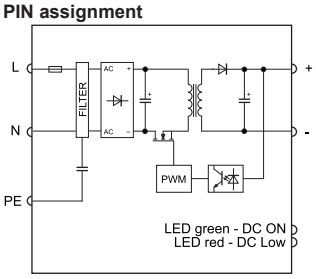
Power supply · regulated, 15 W

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

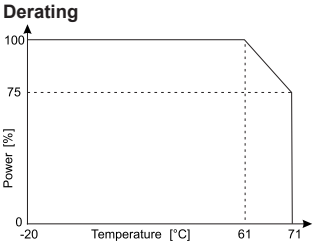
Dimensions



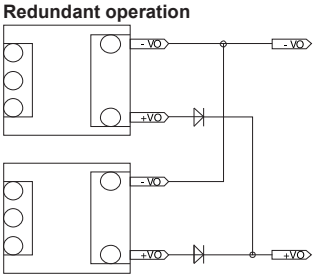
PIN assignment



Derating



Redundant operation



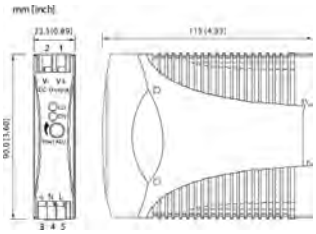
Description		Part-No.	Type	PU
Screw terminal				
Output voltage/current	DC 5 V/ 3 A	728762	DRA 18-05A	1
Spring terminal				
Output voltage/current	DC 5 V/ 3 A	722762	DRA 18-05	1

Input	**DRA 18-05A**	**DRA 18-05**
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: 170 mA / U_i= AC 230 V: 90 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		
Rated voltage output	DC 5 V	
Rated current output	3 A	
Max. output current	–	
Short-circuit current	–	
Voltage trim range	4.5–5.75 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	U_i= 115 V: 20 ms / U_i= 230 V: 75 ms	
Status indication DC ON LED green	≥4.5 V	
Status indication DC LOW LED red	<3.75–4.50 V	
Parallel/redundant operation	max. 2 devices / via external diodes	
Efficiency	75 %	
Low power loss	5 A (AC 230 V)	
Rated over load protection	110–135 %	
Over voltage protection	125–145 %	
Short circuit characteristics	Hiccup-mode	
General		
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 60 °C	
Storage temperature range	-40 °C – 85 °C	
M.T.B.F.	795000 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 postition	vertical	
Protection class	IP 20	
IP rating	II (SELV, PELV)	
Overvoltage category	II	
Pollution degree	2	
Weight (kg/piece)	0.150	
Termination	Screw terminal: 0.2–2.5 mm^2,max. 0.56 Nm	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		
DC ON Control (Rdy)	LED green/red	
Switching voltage	–	
Switching current	–	
Switching capacity	–	
Insulation voltage	–	

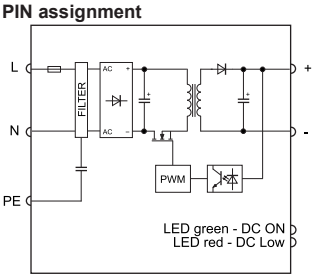
Power supply · regulated, 18 W

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

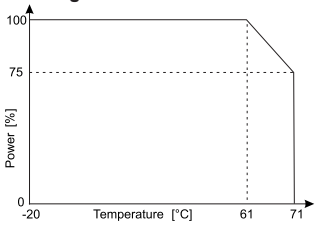
Dimensions



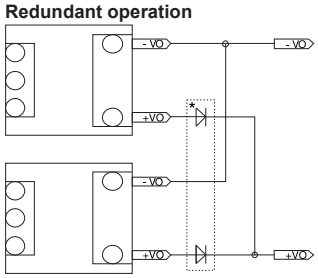
PIN assignment



Derating



Redundant operation



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

Description		Part-No.	Type	PU
Spring terminal				
Output voltage/current	DC 12 V/ 1.5 A	722767	DRA 18-12	1
	DC 15 V/ 1.2 A	722774	DRA 18-15	1
	DC 24 V/ 0.75 A	722752	DRA 18-24	1

Input	**DRA 18-12**	**DRA 18-15**	**DRA 18-24**
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: 200 mA / U_i= AC 230 V: 110 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			
Rated voltage output	DC 12 V	DC 15 V	DC 24 V
Rated current output	1.5 A	1.2 A	0.75 A
Max. output current	–		
Short-circuit current	–		
Voltage trim range	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	U_i= 115 V: 20 ms / U_i= 230 V: 75 ms		
Status indication DC ON LED green	≥10.8 V	≥13.5 V	≥21.6 V
Status indication DC LOW LED red	<9–10.8 V	<11.25–13.5 V	<18–21.6 V
Parallel/redundant operation	max. 2 devices / via external diodes		
Efficiency	77 %		
Low power loss	4.65 W (AC 230 V)	4.25 W (AC 230 V)	4.45 W (AC 230 V)
Rated over load protection	110–135 %		
Over voltage protection	125–145 %		
Short circuit characteristics	Hiccup-mode		
General			
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 60 °C		
Storage temperature range	-25 °C – 85 °C		
M.T.B.F.	797000 h	796000 h	800000 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 postition	vertical		
Protection class	IP 20		
IP rating	II (SELV, PELV)		
Overvoltage category	II		
Pollution degree	2		
Weight (kg/piece)	0.150		
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			
DC ON Control (Rdy)	LED green/red		
Switching voltage	–		
Switching current	–		
Switching capacity	–		
Insulation voltage	–		