

18 W AC/DC Din Rail Power Supply

- UL, cUL, TÜV, CE certified
- Universal input 90-265 VAC
- High efficiency up to 77%
- Short circuit protection
- Internal input filter
- 2 years warranty



Input characteristics

Characteristics	Conditions	min.	typ.	max.	unit
Rated input voltage	Io nom	100		240	V _{AC}
Input voltage range	Ta min - Ta max, Io nom	AC in		265	V _{AC}
		DC in		370	V _{DC}
Line frequency	Vi nom, Io nom	47		63	Hz
Inrush current	Io nom	Vi: 115 V _{AC}		10	A
		Vi: 230 V _{AC}		18	A

Model selection guide

Typ	Output power [W]	Output voltage [V _{DC}]	Output current [A]	Efficiency typ. [%]
DRA18-05	15	5	3.00	75
DRA18-12	18	12	1.50	77
DRA18-15	18	15	1.20	77
DRA18-24	18	24	0.75	77

General characteristics

Characteristics	Conditions	min.	typ.	max.	unit
Switch in frequency	Vi nom, Io nom min	100			kHz
Isolation voltage	Input / output	3000			V _{AC}
Isolation resistance	Input / output, @ 500 V _{DC}	100			Mohm
Ambient temperature	Operating at Vi nom, Io 70-100%	-10		+50	°C
Derating	Vi nom, Io nom +51° - +71°C			2	%/°C
Storage temperature	Non operational	-25		+85	°C
MTBF	According to MIL-HDBK-217F, GF40		195'000		hours
Relative humidity	Vi nom, Io nom	20		95	% RH
Weight	0,15 kg				
Case material	Plastic				
Cooling	Free air convection				
UL / cUL TÜV CE	UL508 Listed, UL60950-1, UL1310 Class 2 Power Supply Recognized EN60950-1 EN61000-6-3 / EN55022 Class B, EN61000-3-2 , EN61000-3-3 EN61000-6-2 / EN55024				

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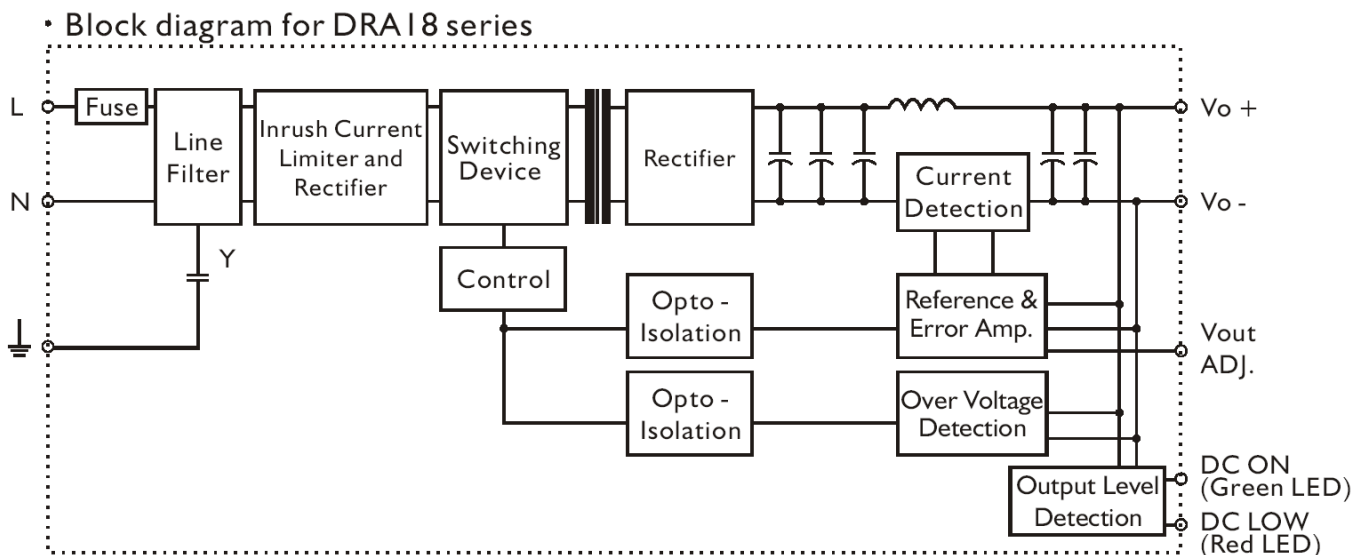
Output Specifications

Characteristics	Conditions	min.	typ.	max.	unit
Output voltage accuracy	V_i nom, I_o min - I_o nom			+1	%
Minimum load	V_i nom	0			%
Line regulation	I_o nom, V_i min - V_i max			+1	%
Load regulation	V_i nom, I_o min - I_o nom			+2	%
Transient recovery time	50% load step changed		300		µS
Temperature coefficient	V_i nom, I_o min			+0.02	% / °C
Ripple and noise	V_i nom, I_o nom, BW = 20 Mhz			50	mV
Hold up time	I_o nom	$V_i = 115 V_{AC}$	20		ms
		$V_i = 230 V_{AC}$	75		ms
Voltage trim range	V_i nom, I_o nom	5V - 15V	-10	+15	ms
		24V	-10	+20	ms
DC on indicator threshold at start up	V_i nom, I_o nom	5V	4.5		V_{DC}
		12V	10.8		V_{DC}
		15V	13.5		V_{DC}
		24V	21.6		V_{DC}
DC low indicator threshold after start up	V_i nom, I_o nom	5V	3.75	4.5	V_{DC}
		12V	9	10.8	V_{DC}
		15V	11.25	13.5	V_{DC}
		24V	18	21.6	V_{DC}

Control and Protection

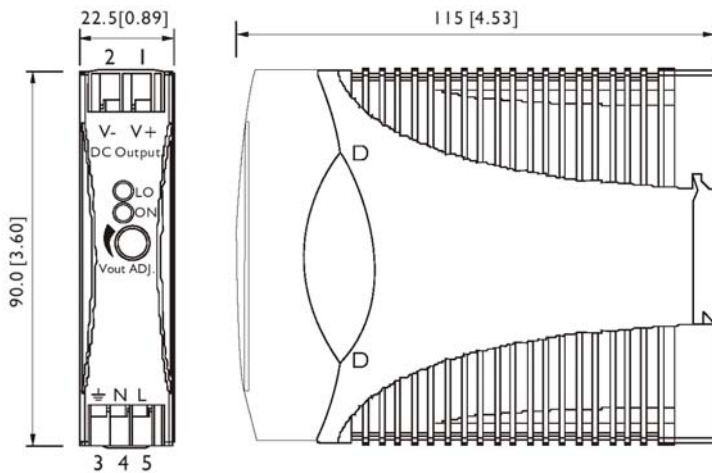
Characteristics	Conditions	min.	typ.	max.	unit
Input fuse		T2A / 250 V_{AC} internal			
Rated over load protection	V_i nom	110		135	%
Over voltage protection	V_i nom, I_o nom	125		145	%
Output short circuit	V_i nom, I_o nom	Hicup mode			

Circuit schematic



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Dimensions



Construction

Easy snap-on mounting onto the Din-Rail (TS35/7.5 or TS35/15), unit sits safely and firmly on the rail; no tools required even to remove.

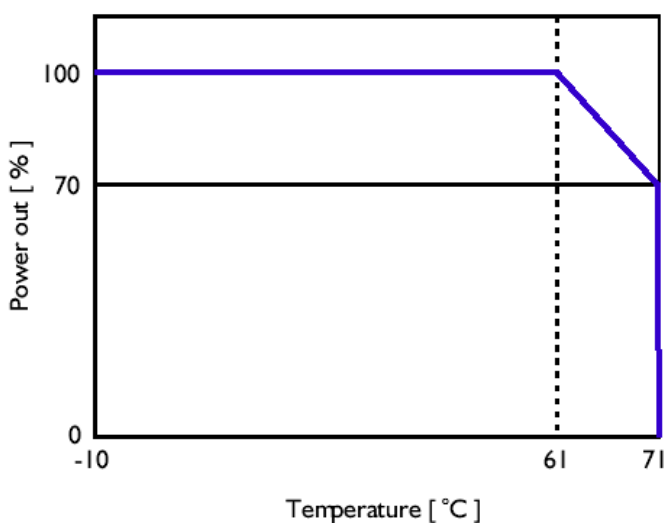
Installation

Ventilation / Cooling
 Above/below 25mm free space
 Connector size range
 Solid: 0.2-2.0 mm² (AWG24-14)
 (use copper conductors only)

Pin assignment

Pin no.	Designation	Description
1	Out	V +
2		V -
3	In	PE, earth
4		N
5		L
	other	On
		Lo
		Vout adj.

Derating



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