



Features:

- AC/DC Power Module
- Universal Input 85V AC to 264V AC
- High Efficiency Up To 86%
- Short Circuit Protection
- · Internal Input Filter

Model List:

Part Number	Input Voltage	Output Wattage	Output Voltage	Output Current	Eff. (typ.)	Eff. (min.)		
Single Output Models								
DRAN30-05			+ 5V DC	6,000mA	79%	77%		
DRAN30-12	85 to 264V AC	30W	+ 12VDC	2,500mA	84%	82%		
DRAN30-24			+ 24VDC	1,250mA	86%	83%		

Specification:

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

lo nom

Characteristics	Conditions		Min.	Тур.	Max.	Unit
Isolation voltage	Input / Outpu	t	3,000			V AC
Isolation resistance	Input / Output, @ 5	00VDC	100			МΩ
Ambient temperature	Operating at Vi	nom	-10		+ 71	°C
Derating	Vi nom,from +61 C t	o +71 C			2.5	%/C
Storage temperature	Non operation	al	-25		+ 85	°C
Relative humidity	Vi nom, lo noi	n	20		90	% RH
Dimension	L90 × W40.5 × D115					mm
Cooling	Free air convection					
Case material	Plastic					
Input Specifications:						
Characteristics	Conditions		Min.	Тур.	Max.	Unit
Rated input voltage	lo nom		100		240	V/ A C
I	Ta min Ta max,	AC in	80		264	VAC
Input voltage range	lo nom	DC in	90		375	V DC
Line frequency	Vi nom, Io noi	n	47		63	Hz
		Vi · 115V AC			20	

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Inrush current



Vi : 230V AC



Specification:

All Specifications Typical At Nominal Line, Full Load, 25°C Unless Otherwise Noticed

Characteristics	Conditions	Min.	Тур.	Max.	Unit	
Output voltage accuracy	Vi nom, lo minlo nom				±1	
Minimum load	Vi nom		0			%
Line regulation	lo nom, Vi minVi max				0.5	%
Load regulation	Vi nom, lo minlo nom	1			0.5	
Turn on time	After AC is applied to input at full resistive load				1,000	
Voltage fall time	Io nom, Vo = 95% to 10% rated voltage				450	
Voltage rise time	At full resistive load				150	ms
Hall a Car	In mana	Vi : 115V AC	20			
Hold up time	lo nom Vi : 230V		30			
Ripple & noise	Vi nom, Io nom, BW = 20MHz				50	mV
		5V model	5	5.5		
Voltage trim range	Vi nom, Wo =30W max	12V model	12		14]
		24V model	24		28	
DC ON indicator threshold at start up	dicator t start up	5V model	4			V DC
		12V model	9.6			
		24V model	19.2			
Efficiency	Vi nom, Io nom, Po / Pi		U	p to 86%,	see model	list

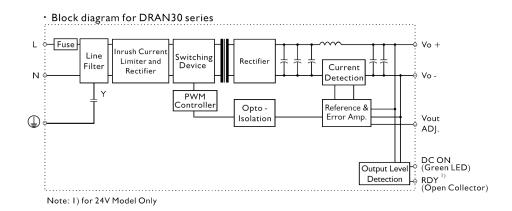
Control And Protection:

Characteristics	Conditions	Min.	Тур.	Max.	Unit	
Rated over load protection	Vi nom	110		140	%	
		12V model	6		6.8	
Over voltage protection	Vi nom, lo nom	12V model	15		16.5	V DC
	24V		30		33	
Output short circuit	Vi nom, lo nom			Fold 1	forward	

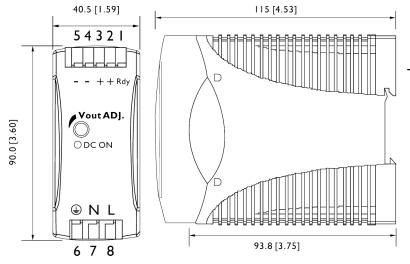




Circuit Schematic:



Mechanism & Pin Configuration:



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 Normal convection All sides 25m/m free space For cooling recommended Connector size range Solid:0.2-2.0mm²(AWG24-14) (use copper conductors only)

Dimensions: Millimeters (Inches)

Physical Characteristics:

Case Size	90 × 40.5 × 115 mm 3.6 × 1.59 × 4.53"
Case Material	Plastic
Weight	290g

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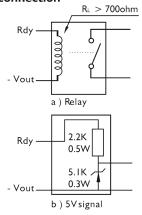


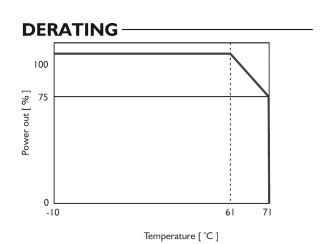


Pin Assignment

PIN NO.		Designation	Description
1		RDY	DC OK output for relay (not connect except 24V model)
2		+	Positive output terminal
3	OUT	+	Positive output terminal
4	001	-	Negative output terminal
5		-	Negative output terminal
6		(Ground this terminal to minimize high-frequency emissions
7	IN	N	Input terminals (neutral conductor, no polarity at DC input)
8	IIN	L	Input terminals (phase conductor, no polarity at DC input)
	OTHER	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
	OTHER	DC ON	Operation indicator LED

Fig. I Rdy connection





Part Number Table

Description	Part Number
PSU, Din Rail, 30W, 5V	DRAN30-05
PSU, Din Rail, 30W, 12V	DRAN30-12
PSU, Din Rail, 30W, 24V	DRAN30-24

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