



AC / DC Din rail mountable 240W Industrial control equipment

Features

- Compact design
- High efficiency up to 90%
- P.F.C function available
- Parallel function available (switch)
- Input Voltage 115 / 230V AC auto select

Specifications

All specifications typical at nominal line, full load, 25°C unless otherwise noticed

General

Characteristics	Conditions	Minimum	Typical	Maximum	Unit
Isolation Voltage	Input / output	3,000	3,000		VAC
Isolation Resistance	Input / output, at 500 V DC	100	-	-	МΩ
Ambient Temperature	Operating at Vi nom, lo 70% to 100%	-10	-	+50	°C
Case Temperature	Operating at Vi nom, lo nom	-	-	+90	-
Derating	Vi nom, lo nom +51°C to +71°C	-	-	1.5	
Storage Temperature	Non Operational	-25	-	+85	°C
M.T.B.F.	According to MIL-HDBK-217F, GF40	-	200,000	-	Hrs
Relative Humidity	Vi nom, lo nom	20	-	95	% RH
Dimension	Screw terminal type	L125 × W83 × D126		126	mm
Dimension	Detachable connector type	L142 × W83 × D126			mm
Cooling	Free air convection	-	-	-	-
Case Material	Metal	-	-	-	-

Input Specifications

Rated Input Voltage	lo nom		115 / 230 (auto select)			
	Ta minimum to Ta max	imum, AC 115V selected	93	-	132	VAC
Input Voltage Range	lo nom	C 230V selected	186	-	264	
		DC	210	-	370]
Rated Input Current	lo nom		-	5.4 / 2.2	-	Α
Line Frequency	Vi nom, lo nom		47	-	63	Hz
Inrush Current	Vi nom, lo nom	Vi : 115V AC	-	-	30	Α
illiusii Cuitelii		Vi : 230V AC	-	-	60	Α
P. F. C.	Vi : 230V AC, lo nom		-	0.7	-	-





Output Specifications

Characteristics	Conditions		Minimum	Typical	Maximum	Unit
Output Voltage Accuracy (Adjusted before shipment)	Vi nom, lo maximum		0	-	+1	%
Minimum Load	Vi nom		0	-	-	%
Line Regulation	lo nom, Vi minimum to Vi n	naximum	-	-	±0.5	%
Load Regulation	Vi nom,	single mode	-	-	±1	%
	lo minimum to lo nom	parallel mode	-	-	±5	%
Temperature Coefficient	Vi nom, lo minimum		-	-	±0.3	% / °C
Ripple and Noise	Vi nom, Io nom, BW = 20MHz		-	-	100	mV
Hold up Time	Vi nom, lo nom	Vi = 115V AC	25	-	-	ms
		Vi = 230V AC	30	-	-	ms
Voltage Trim Range	Vi nom, Io nom	24V models	22.5	-	28.5	
		48V models	47	-	56]
DC on Indicator	Vi nom, lo nom	24V models	17.6	-	19.4	V DC
Threshold at Start up		48V models	37	-	43	
DC Low Indicator	Vi nom, lo nom	24V models	17.6	-	19.4	
Threshold After Start up		48V models	37	-	43	
Parallel Operation	0.9 lo maximum		-	-	3	Unit
Efficiency	Vi nom, Io nom, Po / Pi	Uţ	o to 90%, se	e model list		

Control and Protection

Input Fuse	-	T6.3A / 250V AC internal			
Rated Over Load Protection	Vi nom	105 - 145			%
Power Rdy (Only for DRA240-24A)	Threshold voltage of contact closed (at start up)	17.6	-	19.4	V DC
	Electrical isolation	500	-	-	V DC
(Only for Divazao-zaa)	Contact rating at 60V DC	-	-	0.3	Α
Over Voltage Protection	Vi nom, lo nom	120 - 145		%	
Output Short Circuit	Vi nom, lo nom	Current limited			

Specification Table

Part Number	Input Voltage	Output Wattage	Output Voltage	Output Current	EFF. (Minimum)	EFF. (Typical)
Single Output Models						
DRA240-24A		240 Wette	+24 V DC	10A	87%	89%
DRA240-48A	115 / 230V AC	240 Watts	+48 V DC	5A	88%	90%



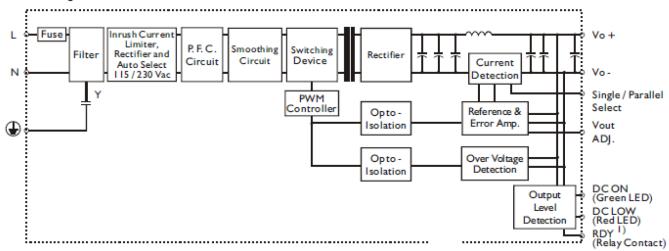


Approvals and Standards

UL / cUL	UL508 Listed
TUV	EN60950
	EN61000-6-3
CE	EN61000-6-2
	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

Circuit Schematic

Block diagram for DRA240 series



Note: 1) For Only DRA240-24A

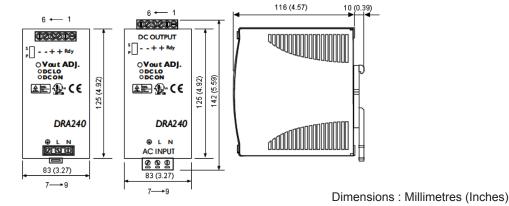
Physical Characteristics

Case Size

: 125mm × 83mm × 126mm (4.92" × 3.27" × 4.96") Screw Terminal Type : 142mm × 83mm × 126mm (5.59" × 3.27" × 4.96") Detachable Connector Type

Weight : 1,000g

Mechanism and 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

Installation

Ventilation / Cooling Normal convection All sides 25 m / m free space For cooling recommended Connector size range Screw terminal: 10-24 AWG flexible / solid cable, 8 m/m stripping at cable end recommends

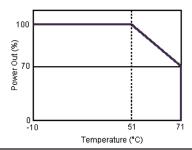
Detachable connector:

14-24 AWG flexible / solid cable, 7 m/m stripping at cable end recommends

Pin Assignment

Pin Number	Designation		Description
1 2		RDY	A normal open relay contact for DC ON level control (Never connect except 24V, DRA240-24A)
3	0.1	V +	Positive output terminal
4	Out	V +	Positive output terminal
5		V -	Negative output terminal
6		V -	Negative output terminal
7	€		Ground this terminal to minimize high-frequency emissions
8	In	L	Input terminals (phase conductor, no polarity at DC input)
9		N	Input terminals (neutral conductor, no polarity at DC input)
-		DC ON	Operation indicator LED
-		DC LO	DC LOW voltage indicator LED
-		Vout ADJ.	Trimmer-potentiometer for Vout adjustment
-	·	S/P	Single / Parallel select switch

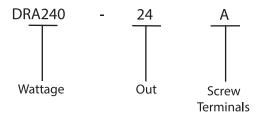
Derating







Part Number Explanation



Out : 24 = 24V out and 48 = 48V out

Screw Terminals : A = Screw Terminals

Part Number Table

Description	Part Number
PSU, Din Rail, 240W, 24V	DRA240-24A
PSU, Din Rail, 240W, 48V	DRA240-48A

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