



120W - 480W Single Output: 24V 180W - 720W Peak Power DIN Rail Mount Power Supplies for Hazardous Location

Features	Benefits
• IECEx / ATEX Approval	• Use in Explosive Atmospheres
• Conformal Coated Circuit Boards	• Resistance to Harsh Environment
• Narrow Convection Cooled Design	• Saves Space on Rail & Cabinet Cost
• Remote On/Off	• Supports Intelligent Controls
• ErP Referenced Design	• Improves "Environmental Footprint"
• Remote Programming	• Wide Range of Applications



Specifications				
MODELS		DRF120-24-1/HL	DRF240-24-1/HL	DRF480-24-1/HL
AC Input voltage range	VAC	85 - 264 (withstand 300VAC surge for 5s)		
Input frequency	Hz	47 - 63		
Inrush current @ cold start (typ)	A	20		
Power factor (typ) (115/230)	-	0.98/0.95	0.98/0.95	0.98/0.92
Input current (typ) (2)	A	1.2/0.6	2.4/1.2	4.7/2.5
Output voltage	V	24		
Output current	A	5	10	20
Peak output current (1)	A	7.5	15	30
Peak output power (1)	W	180	360	720
Line regulation	mV	<96		
Load regulation	mV	<240		
Ripple and noise (2 & 3)	mV	<240		
Over current protection (4)	-	> 105% peak output current		
Over voltage protection (5)	V	30 - 35.5		
Hold up time (230VAC)	ms	20		
Efficiency (typ) (230VAC)	%	91	94	
Average efficiency (230VAC)	%	88.6	92.4	92
Standby input power (230VAC)	W	< 0.5	< 0.5	< 0.75
Parallel operation (6)	-	Possible		
Series operation (6)	-	Possible		
LED indicators	-	DC OK signal - green (Vout > 80% rated output voltage): Peak power mode - red		
DC OK relay	-	Relay contact 30V/1A (closed if Vout > 80% of rated output voltage)		
Operating temperature	°C	-25°C to +70°C (60°C to 70°C derate to 75% load)		
Storage temperature (7)	°C	-40°C to +85°C		
Operating humidity	%	5-95 RH (non condensing)		
Operating altitude	m	Up to 3,000		
Cooling	-	Convection		
Withstand voltage	-	I/P to FG: 1.5kVAC (20mA), I/P to O/P 3kVAC (20mA), O/P to FG: 500VAC (100mA) for 1 min		
Isolation resistance	MΩ	I/P to FG, IP to O/P and O/P to FG: >100MΩ (500VDC) at 25°C & 70%RH		
Vibration	-	Non-operating, 10-55Hz (sweep for 1 min.): 19.6 m/s² constant, X,Y,Z axis 1 hour each		
Shock	-	<196m/s²		
Safety agency approvals (8)	-	IEC/EN/UL60950-1, CE, UL508 listed, IECEN60079-0, -15 (IECEx, ATEX)		
Emissions	-	EN55022 Class B, CISPR22-B		
Immunity	-	EN61000-4-2,-3,-4,-5,-6,-8,-11		
Weight (typ)	g	600	900	1300
Size (W x H x D)	mm	36.5 x 123.4 x 115.4	49 x 123.4 x 115.4	82 x 123.4 x 115.4
Case material	-	Metal		
Warranty	yrs	5		

See Page 2 for Notes