

120W Din-Rail Switching Mode Power Supply

DRS - 1210-12 / 1210-24 / 1210-48

Description

This range of compact DIN mounted switching mode power supplies are designed for a wide range of control equipments which demands good quality regulated DC power source with excellent EMC immunity and electrical performance in an industrial environment. Up to 5 units can be connected in parallel.



Specifications

	DRS-1210-12	DRS-1210-24	DRS-1210-48
INPUT			
Voltage Range (Auto Select)	90 - 130Vac ; 180 - 260Vac		
Frequency Range	47 - 63Hz~		
Full Load AC Current	2.8A@100Vac ; 1.2A@230Vac	2.6A@100Vac ; 1A@230Vac	2.6A@100Vac ; 1A@230Vac
No Load AC Current	100mA@100Vac ; 140mA@230Vac	90mA@100Vac ; 120mA@230Vac	90mA@100Vac ; 120mA@230Vac
Inrush Current , cold start @25°C *	25A@100Vac ; 55A@230Vac		
Leakage Current	2mA		
Power Factor	min. 70%		
Efficiency	82%@100Vac ; 83%@230Vac	85%@100Vac ; 86%@230Vac	86%@100Vac ; 87%@230Vac
OUTPUT			
Nominal DC Voltage	12V	24V	48V
Voltage Adjust Range	10.5 - 14V	22.5 - 28V	44.5 - 53V
Rated Current	10A	5A	2.5A
Rated Power	120W		
Ripple & Noise (peak to peak)**	≤50mV		
Line Regulation	≤0.2%		
Load Regulation (10% - 100%)	≤0.3%		
Hold-up Time (Full Load)	>30mSec@100Vac ; >40mSec@230Vac		
Parallel Operation	5 units max. user selectable		
PROTECTION			
Over Load / Over Current	10.8 - 11.4A, C.C., Auto-restart	5.4 - 5.7A, C.C., Auto-restart	2.7 - 2.9A, C.C., Auto-restart
Over Output Voltage	16.5 - 18.5Vdc	30 - 35Vdc	63 - 68Vdc
SAFETY & EMC			
Safety Standards	EN60950		
Withstand Voltage	I/P - O/P 3KVac ; I/P - F/G 1.5KVac ; O/P - F/G 0.5KVac		
Insulation Resistance	I/P - O/P, I/P - F/G, O/P - F/G 100Mohm and 500Vdc		
EMI Radiation & Conduction	EN55022 Class B		
Harmonics Current	EN61000-3-2, 3		
EMC Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024		
ENVIRONMENT			
Working Temperature	EN60950 : -10°C to +60°C (UL508 : 0 to 40°C)		
Derating above 50°C	See Derating Curve		
Working Humidity	20 - 90 RH non-condensing		
Storage Temperature Humidity	-10°C to +80°C , 20 - 90 RH non-condensing		
GENERAL			
Switching Frequency @ Full Load	45 - 55KHz		
Case Material	Electro-Galvanized steel & Aluminum Enclosure and Poly-carbonate Front Panel		
Safety Class	Degree of Protection 1 (IEC 5360)		
Case Protection	IP 20 (IEC 529)		
Mounting	Snap on type with self locking can be installed on 35 mm Din-Rails / 7.5 or 15		
Connection	Screw terminals with double terminals for output		
REMARK	*Ta=25°C Cold start **100MHz Band width scope		

All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE *