

DLP Series

75 to 240W, 24V Output
DIN Rail Mount Power Supply

- Low Cost
- 3 Year Warranty
- Semi F47 Compliant (DLP180&240 only)
- Convection Cooled
- Conducted and Radiated EMI, Class B
- Input Transient Protection, IEC61000-4

Key Market Segments & Applications

Industrial Controls: Motor Control Systems
Factory Automation: Process Control, Automotive, Chemical Processing
Test & Measurement: Burn in & Test, Instrumentation Measurement

DLP Features and Benefits

Features

- PFC Compliant to EN61000-3-2
- UL508 Approvals
- 3 Year Warranty

Benefits

- Supports Global Use
- Enables System Certification
- Fit & Forget

Specifications

MODELS		DLP75-24-1/E	DLP100-24-1/E	DLP120-24-1/E	DLP180-24-1/E	DLP240-24-1/E
Output Voltage	V	24	24	24	24	24
Output Current	A	3.1	4.1	5.0	7.5	10
Output Power	W	75	98.4	120	180	240
Output Voltage Adjustment	V	21.6 - 28				
Load Regulation	mV	192				
Line Regulation	mV	120				
Ripple/Noise (0-60°C)	mV	240				
AC Input Voltage & Frequency	-	85-132/170-265VAC, 47-63Hz Auto select			85-265VAC (47-63Hz) or 120-370VDC(1)	
Input Current 100/230VAC	A	1.7/0.8	2.3/1.2	2.4/1.3	2.3/1.0	3.0/1.3
Efficiency 100/230VAC	%	81/83	82/85	83/85	84/87	82/86
Power Factor	-	Meets EN61000-3-2 (DLP180, 240: >0.95)				
Inrush Current(Typ)100/230VAC	A	20/45				
Leakage Current	mA	Less than 0.75				
Hold-up Time 100/230VAC	ms	20/30 (Semi F47 Compliance, DLP 180 & 240 only)				
Overcurrent Protection	-	>105%,Fold Back	>105%, Constant Current			
Overvoltage Protection	-	30-35V, latching, cycle AC line to reset				
LED Indicators	-	Green LED = DC ok Red LED = overcurrent				
Operating Temperature (2)	°C	Convection cooled, -10°C to 60°C, derate linearly to 60% load from 50°C to 60°C				
Storage Temperature	°C	-30°C ~ +85°C				
Humidity (Non-Condensing)	%RH	30-90% operating 10-95% non operating				
Withstand Voltage	-	Input - Ground 2kVAC, Input to Output 3kVAC, Output - Ground 500VAC				
Vibration	-	9.8m/s² (1.0G) at DIN rail; (10-55Hz: 9.8m/s² Constant, X,Y, Z each 1 hour)				
Shock	-	196m/s² (20G)				
Safety Agency Approvals	-	UL508, IEC/UL/CSA/EN62368-1, 60950-1, EN50178 Cat III (Pri), CE Mark				
Conducted EMI	-	FCC-B, EN55011/EN55022-B, VCCI-B; Meets IEC61000-4-1				
Radiated EMI	-	EN55011/EN55022-B, FCC-Class B, VCCI-B				
ESD	-	IEC61000-4-2 ±10kV (Air), ±5kV (Contact)				
Radiated RFI	-	IEC61000-4-3 80-1000MHz,12V/m 80% AM 1kHz				
Fast Transient Burst	-	IEC61000-4-4 2.4kV 5kHz				
Lightning Surge	-	IEC61000-4-5 4.4kV, 1.2x50µs (Common Mode) 2.4kV 1.2x50µs (Normal)				
Conducted RFI	-	IEC61000-4-6 150kHz-80MHz, 12V, 80% AM 1kHz				
Magnetic Field	-	IEC61000-4-8 36A/m				
Voltage Dips	-	IEC61000-4-11 70% 10ms, 40% 100ms, 0% 5s				
Size	mm	50 x 97 x 110	60 x 97 x 110	60 x 97 x 110	80 x 97 x 110	120 x 97 x 110
Weight	g	470	540	540	780	1000
Warranty	yrs	3				