

MARATHON Series Switch Mode Power Supplies.

PROXIMON
AN ISO 9001 COMPANY

Proximon Controls, the name synonymous with the quality automation components in industry today, like proximity sensors, photoelectric sensors, colour mark detectors, encoders, counters ; offers an exhaustive range of power supplies.... the **MARATHON** series.

Marathon series of Switch Mode Power Supplies are designed with unique state of the art current mode PWM technology to obtain precise regulated output voltage at rated power. These "Switch Mode Power Supplies" are specially designed to work in harsh industrial environment, specifically for use in Indian power line conditions.

Due to its exhaustive range, these Marathon series SMPS are in great demand in wide spectrum of industries like Instrumentation, Office Automation, Telecom, Medical Electronics, Railways, Fire Alarm Systems, Control Panels, Research Institute, Process industries, Engineering Industries etc.

Features :

- * High efficiency
- * High reliability
- * Low temperature rise
- * Built in EMI filter
- * Low output ripple, noise
- * Compact size, light weight
- * Rugged heavy duty enclosure
- * Short Circuit protection, Overload / Over voltage protection
- * 100% Full load burn-in tested
- * Over Temperature Protection
- * Parallel / Redundancy operation is possible



MARATHON Series Switch Mode Power Supplies.

Specifications :

Input voltage : 180 - 270 VAC / 90 - 135 VAC / 90 - 270 VAC
 Input frequency : 47 - 63 Hz
 Output voltage : 24 VDC / 48 VDC / 12 VDC / 5 VDC / 10-15 VDC
 12-18 VDC / 12-24VDC / 110 VDC

Overload, Short circuit, Over voltage, over temperature protection
 Onboard EMI / RFI filter
 Line Fuse protection
 Efficiency : Typical 85%
 Operating Temp - upto 50 deg. C @ 100%, 50 - 60 deg. C @ 80%
 Withstand Voltage - I/P - O/P : 2 KV, I/P - FG : 2 KV
 Ripple & Noise : < + / -1%
 Line & Load Regulation : < + / -0.5%

Mounting :

All models are panel mountable with optional DIN rail mounting version upto 360W

Dimensions :

Power	Model	Dimension H x W x D
720 W	24V,30A	96 x 240 x 216 mm
480 W	24V,20A	96 x 240 x 216 mm
360 W	24V,15A	96 x 172 x 122 mm
240 W	24V,10A	96 x 172 x 122 mm
120 W	24V,5A	60 x 152 x 108 mm
60 W	24V,2.5A	60 x 152 x 108 mm

Available in rugged Powder Coated MS enclosures, a robust metal housing.

Typical Power Supply Solutions



Instrumentation / Control Panels :

SMPS : Input 230 V AC, Output 24 V DC, 2.5 A / 5 A / 10 A



Telecommunication :

DC-DC Converter : Input 24 VDC, Output 48 VDC, 10 AMP



Textile Machinery :

SMPS : Input 230 VAC, Output 24 VDC / 10A, 48 VDC / 10A



Railways :

DC-DC Converter : Input 90-200 VDC, Output +/- 12 VDC or 15 VDC, 1 Amp



Sorting Machines :

SMPS : Input 230 VAC, Output 24 VDC, 10 A / 20 A



Plastic Moulding Machine:

SMPS : Input 230 VAC, Output 24 VDC, 5 A / 10 A



FFS packing Machine :

SMPS : Input 230 VAC, Output 24 VDC, 5 A / 10 A / 20 A

Product	Input	Output							
SMPS	180-270 VAC/ 90-135 VAC	24 VDC, 2.5 Amp.	24 VDC, 5 Amp.	24 VDC, 10 Amp.	24 VDC, 20 Amp.	24 VDC, 30 Amp.	12 VDC, 5 Amp.	12 VDC, 10 Amp.	12 VDC, 20 Amp.
		48 VDC, 5 Amp.	48 VDC, 10 Amp.	48 VDC, 15 Amp.	5 VDC, 6 Amp.	5 VDC, 10 Amp.	12-24 VDC, 5 Amp.	12-24 VDC, 10 Amp.	10-15 VDC, 4 Amp.
	90-270 VAC	24 VDC, 3 Amp.	12 VDC, 5 Amp.						
DC-DC Converters	90-200VDC	+ 12 VDC / 0.8 Amp. & -12 VDC / 0.8 Amp. + 5 VDC / 1 Amp., +12 VDC / 0.5 Amp. & -12 VDC / 0.5 Amp.							
	110 VDC	24 VDC, 2.5 Amp.	24 VDC, 5 Amp.	24 VDC, 10 Amp.					
	24 VDC	48 VDC, 10 Amp.							
Battery Charger	180-270 VAC	28.8 VDC, 5 Amp.	12 VDC, 6 Amp.	12 VDC, 10 Amp.	24 VDC, 5 Amp.	24 VDC, 10 Amp.			

Proximon Controls Pvt. Ltd. is a preferred supplier of SMPS to large no. of OEMs due to

- * Proximon's extensive production capacity
- * An ISO 9001 Certified design & manufacturing house
- * Tenacious focus on quality
- * Flexible and high reliability processes to accommodate demanding delivery schedules.

Design & Supply of Non-Standard customised requirement from OEMs is undertaken on priority.

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PROXIMON CONTROLS PRIVATE LIMITED

Office : 202, Krishna, Laxmi Industrial Complex, Pokharan Road No. 1, Vartak Nagar, Thane - (West) - 400606. INDIA.

Phone : 91-22-25889244 / 45 Fax : 91-22-2588 9246 e-mail : info@proximon.com Website : www.proximon.com

Works : Automation House, EL-18, T.T.C. Industrial Area. M.I.D.C., Mahape, Navi Mumbai - 400 701. Phone : 91-22-27671928 / 30