



- **Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz**
- **IEC-320-C8 Input Inlet**
- **Output Voltage Available From 5VDC Thru 36VDC**
- **Splash proof**
- **Over Voltage and Over Load protection**
- **Class II Insulation**
- **Over temperature Detection**
- **CEC and Energy Star compliance**
- **3 Year Warranty**

Description: The MSORS15X Series of AC/DC switch mode power supplies provide 15 watts of continuous output power. All supplies are UL 94V-1 min compliant. All models comply with UL/c-UL(UL 60601-1), TUV/T-mark(EN 60601-1) and new CE requirements. All units are 100% burned-in and tested.

Electrical Characteristics:

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin=90 to 264VAC	0		15	W
Output Voltage Range		See rating chart			V
Output Current Range		See rating chart			A
Input Current (Low Line)	Io=Full load, Vin=115VAC		0.25	0.35	A
Input Current (High Line)	Io=Full load, Vin=230VAC		0.17	0.22	A
Low Line Inrush Current	Io=Full load, 25 °C, Cool start, 115VAC		14	16	A
High Line Inrush Current	Io=Full load, 25 °C, Cool start, Vin=230VAC		28	30	A
Efficiency	Io=Full Load, Vin=230VAC	73		85	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC	1	3	5	%
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Hold-Up Time	Io=Full Load, Vin=110VAC	10	16		mS
Start Up Time	Io=Full Load, Vin=100VAC	0.5	1	2	S
Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Temperature Coefficient	All outputs	-0.04		0.04	%/ °C
Thermal Shutdown by Junction	Temperature Controller	-20		125	°C

MSORS15X Series
15 Watts

Operating Temperature		0	50	70	C
Storage Temperature		-40		85	C
Relative Humidity	No-Condensing	5		95	%
Derate linearly from 100% load at 50 C to 50% load at 70 C					

Safety Specifications:

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Dielectric Withstanding Voltage	Primary to secondary	5938			VDC
Meets FCCPART-15,FCCPART-18	Vin=120VAC, 60Hz	B			CLASS
Meets EMI EN55022	Vin=230VAC, 50Hz	B			CLASS
Part Number	Model Number	Output Current		Total Regulation	Maximum Output Power
MSORS13-5SX	5 VDC	2.60 A		5%	13W
MSORS13-7SX	7 VDC	1.85 A		5%	13W
MSORS15-9SX	9 VDC	1.66 A		5%	15W
MSORS15-12SX	12 VDC	1.25 A		5%	15W
MSORS15-16SX	16 VDC	0.93 A		5%	15W
MSORS15-18SX	18 VDC	0.83 A		5%	15W
MSORS15-24SX	24 VDC	0.62 A		3%	15W
MSORS15-30SX	30 VDC	0.50 A		3%	15W
MSORS15-36SX	36 VDC	0.41 A		3%	15W

Notes:

Total regulation on models 5SX & 7SX requires AWG#18 / 4FT output cable.

Total regulation on models 9SX – 16SX requires AWG#18 / 6FT output cable.

The total regulation on models 18SX – 36SX requires AWG#20 / 6FT output cable.

The regulation and efficiency will change with modified output cable.

Mechanical Specifications:

- Dimensions shown are in MM
- Optional Output Connector
- Weight is approximately 170 grams

