


**Key Features:**

- **Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz**
- **IEC-320-C14 Input Inlet**
- **Output Voltage Available From 5VDC Thru 36VDC**
- **Splash proof**
- **Over Voltage and Over Load protection**
- **Class I Insulation**
- **Over temperature Detection**
- **CEC and Energy Star compliance**
- **3 Year Warranty**

**Description:** The MSORS15 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

**MSORS15 Series**
**15 Watts**

Thermal Shutdown by Junction	Temperature Controller	-20		125	°C
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
MSORS13-5S	5 VDC	2.60 A		5%	13W
MSORS13-7S	7 VDC	1.85 A		5%	13W
MSORS15-9S	9 VDC	1.66 A		5%	15W
MSORS15-12S	12 VDC	1.25 A		5%	15W
MSORS15-16S	16 VDC	0.93 A		5%	15W
MSORS15-18S	18 VDC	0.83 A		5%	15W
MSORS15-24S	24 VDC	0.62 A		3%	15W
MSORS15-30S	30 VDC	0.50 A		3%	15W
MSORS15-36S	36 VDC	0.41 A		3%	15W

**Notes:**

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

**Mechanical Specifications:**
