


Key Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- Internal EMI filter
- Single Output
- Output Voltage Available From 5VDC thru 36 VDC
- Surge, Over Voltage and Over Load protection
- Output Voltage Protection
- Class I Insulation
- 3 year warranty

The MOFS30 Series of compact, open frame AC/DC switch mode power supplies that provide 30 watts of continuous output power. They are suited for use in hospital instrument and many other applications. All models meet FCC Part-18 class B and CISPR-11 EN55011 class B emission Limits and are designed to 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 264 VAC	0		30	W
Output Voltage Range		See rating Chart			V
Output Current Range		See rating Chart			A
Input Current (Low Line)	Io=Full load, Vin=115VAC			0.7	A
Input Current (High Line)	Io=Full load, Vin=230VAC	0.3		0.5	A
Low Line Inrush Current	Io=Full load, 25 C,Cool start,Vin=115VAC		15	18	A
High Line Inrush Current	Io=Full load, 25 C,Cool start,Vin=230VAC		21	25	A
Efficiency	Io=Full load, Vin=230VAC	70	80	85	%
Line Regulation	Io=Full load		0.5	1	%
Load Regulation	Vin=230VAC		3	7	%
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	16			mS
Start Up Time	Io=Full load, Vin=100VAC	0.3	1	2	S
Ripple & Noise (Peak to Peak)	Full load, Vin=90VAC		0.5	1	%
Safety Ground Leakage Current	Io=Full load, Vin=240VAC		0.1	0.3	mA
Temperature Coefficient	All outputs	-0.04		0.04	%/ C

Environmental:

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0		70	C
Storage Temperature		-40		85	C
Relative Humidity		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 for Primary to secondary	Primary to secondary	5600			VDC
Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2800			VDC
Isolation Resistance	Test Voltage=2100VDC	50			M
EMI requirements for CISPR-11	Vin=220VAC	B			CLASS
EMI requirements for FCC PART-18	Vin=110VAC	B			CLASS

Output Ratings and Current Chart

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
MOFS30-5S	5 VDC	6.00 A	5%	30W
MOFS30-7S	7 VDC	4.28 A	5%	30W
MOFS30-9S	9 VDC	3.33 A	5%	30W
MOFS30-12S	12 VDC	2.50 A	5%	30W
MOFS30-15S	15 VDC	2.00 A	5%	30W
MOFS30-18S	18 VDC	1.66 A	5%	30W
MOFS30-24S	24 VDC	1.25 A	5%	30W
MOFS30-30S	30 VDC	1.00 A	5%	30W
MOFS30-36S	36 VDC	0.83 A	3%	30W

Mechanical Specifications:

- 1) Dimensions are shown in inches or mm.
- 2) Weight: 200gs approx.
- 3) Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
- 4) Output connector mates with Molex housing 09-50-3061 and Molex 2478 series crimp terminal.

