MOFS63X Series — 63 Watts

Key Features:

- Wide Input Voltage 90 to 264 VAC, 47 to 63 Hz
- Internal EMI filter
- Single to Quad Output
- Output Voltage Available From 3 VDC thru 40 VDC
- Surge Current, Over Voltage and Over Load protection
- Output Voltage Protection
- Class 1 Insulation
- 3 Year Warranty

Description:

The MOFS63X Series of compact open frame AC/DC switch mode power supplies provide 63 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 Specifications:

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		63	W
Output Voltage Range		See rating Chart			V
Output Current Range		See rating Chart			A
Input Current (Low Line)	Io=Full load, Vin=115VAC			1.6	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.8	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 output	-0.04		0.04	%/ C

Environmental Specifications:

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

Single Output Voltage and Current Rating Chart

Model No.	Output	Output Current	Total Regulation	Power	Safety
MOFS50-3SX	3-5VDC	16.66-10.0A	7%	50W	UL/cUL, T- mark, CB, CE
MOFS55-5SX	5-6VDC	11.0-9.16A	7%	55W	UL/cUL, T- mark, CB, CE
MOFS60-7SX	6-8VDC	10.0-7.50A	5%	60W	UL/cUL, T- mark, CB, CE
MOFS63-9SX1	8-11VDC	7.87-5.72A	5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-12SX	11-13VDC	5.72-4.84A	5%	63W	UL/cUL, T- mark, CB, CE
MOFS45-13SX1	11-13VDC	4.09-3.46A	5%	45W	UL/cUL, T- mark, CB, CE
MOFS63-15SX	13-16VDC	4.84-3.93A	5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-18SX	16-21VDC	3.93-3.00A	5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-24SX	21-27VDC	3.00-2.33A	5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-28SX	27-33VDC	2.33-1.90A	5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-36SX	33-40VDC	1.90-1.57A	2%	63W	UL/cUL, T- mark, CB, CE

Multiple Output Voltage and Current Rating Chart

Dual Output Models	Output	Output Current	Regulation	Power	Safety
MOFS59-3.3S12SX	+3.3V / +12V	7.0A / 3.0A	6% / 5%	59.1W	UL/cUL, T- mark, CB, CE
MOFS63-5S12SX1	+5.0V / +12V	7.0A / 3.0A	5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S15SX2	+5.0V / +15V	7.0A / 3.0A	5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S24SX	+5.0V / +24V	7.0A / 2.0A	5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS48-3.3S5SX1	+3.3V / +5V	7.0A / 5.0A	6% / 5%	48.1W	UL/cUL, T- mark, CB, CE
MOFS63-5S24SX2	+5.0V / -24V	7.0A / 2.0A	5% / 5%	63W	UL/cUL, T- mark, CB, CE

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Triple Output Models	Output	Output Current	Regulation	Power	Safety
MOFS63-3.3S12DX2	+3.3V/+12V/-12V	6A / 3A / 0.8A	6% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-3.3S12DX3	+3.3V/+12V/+12V	6.A / 3.A / 0.8A	6% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5D12SX2	+5V / +12V / -5V	6A / 3A / 0.8A	5% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5D12SX3	+5V / +12V / +5V	6A / 3A / 0.8A	5% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S12DX3	+5V / +12V / -12V	6A / 3A / 0.8A	5% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S12DX4	+5V / +12V / +12V	6A / 3A / 0.8A	5% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S15DX2	+5V / +15V / -15V	6A / 3A / 0.8A	5% / 5%/ 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S15DX3	+5V / +15V / +15V	6A / 3A / 0.8A	5% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S24S12SX2	+5V / +24V / -12V	6A / 2A / 0.8A	5% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS63-5S24S12SX3	+5V / +24V / +12V	6A / 2A / 0.8A	5% / 5% / 5%	63W	UL/cUL, T- mark, CB, CE
MOFS60-3.3S12S5SX2	+3.3V / +12V / -5V	6A / 3A / 0.8A	6% / 5% / 5%	59.8W	UL/cUL, T- mark, CB, CE
MOFS63-3.3S12S5SX3	+3.3V / +12V / +5V	6A / 3A / 0.8A	6% / 5% / 5%	59.8W	UL/cUL, T- mark, CB, CE
MOFS53-3.3S5S12SX2	+3.3V / +5V / -12V	5A / 5A / 1A	6% / 5% / 5%	53.5W	UL/cUL, T- mark, CB, CE
MOFS53-3.3S5S12SX3	+3.3V / +5V / +12V	5A / 5A / 1A	6% / 5% / 5%	53.5W	UL/cUL, T- mark, CB, CE
MOFS60-5S55S24SX	+5V / +55V / +24V	0.7A / 0.91A / 0.1A	5% / 5% / 5%	55.95W	No Safety Approvals
Quad Output Models	**Output**	**Output Current**	**Regulation**	**Power**	**Safety**
MOFS63-3.3S12D5SX4	+3.3VDC +12.0VDC -12.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	6% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-3.3S12D5SX5	+3.3VDC +12.0VDC -12.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	6% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-3.3S12D5SX6	+3.3VDC +12.0VDC +12.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	6% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-3.3S12D5SX7	+3.3VDC +12.0VDC +12.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	6% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**

MOFS63-5D12DX4	+5.0VDC +12.0VDC -12.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5D12DX5	+5.0VDC +12.0VDC -12.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5D12DX6	+5.0VDC +12.0VDC +12.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5D12DX7	+5.0VDC +12.0VDC +12.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5S12TX4	+5.0VDC +12.0VDC -12.0VDC -12.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5S12TX5	+5.0VDC +12.0VDC -12.0VDC +12.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5S12TX6	+5.0VDC +12.0VDC +12.0VDC -12.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5S12TX7	+5.0VDC +12.0VDC +12.0VDC +12.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5S12D24SX4	+5.0VDC +12.0VDC -12.0VDC -24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**

MOFS63-5S12D24SX5	+5.0VDC +12.0VDC -12.0VDC +24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5S12D24SX6	+5.0VDC +12.0VDC +12.0VDC -24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5S12D24SX7	+5.0VDC +12.0VDC +12.0VDC +24.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5D15DX4	+5.0VDC +15.0VDC -15.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5D15DX5	+5.0VDC +15.0VDC -15.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5D15DX6	+5.0VDC +15.0VDC +15.0VDC -5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**
MOFS63-5D15DX7	+5.0VDC +15.0VDC +15.0VDC +5.0VDC	6.0A 3.0A 0.8A 0.8A	5% 5% 5% 5%	63W	**UL/cUL, T- mark, CB, CE**

Mechanical Specifications:

Notes -

1. Dimensions are shown in inches or mm.
2. Weight: 300gs approx.
3. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3081 and Molex 2478 series crimp terminal.