

MWE Series

17...50 Watt AC-DC Converters



Input voltage range 85...264 V AC
3 outputs 5/±12 V DC and 5/±15 V DC
Class I equipment



NRTL/C



- Ultra thin and compact
- Universal input range
- Flex power topology

Selection chart

(Models Not Available in North America)

Output 1		Output 2		Output 3		Input voltage	Rated power	Type
$U_{o\ nom}$ [V DC]	$I_{o\ nom}$ [A]	$U_{o\ nom}$ [V DC]	$I_{o\ nom}$ [A]	$U_{o\ nom}$ [V DC]	$I_{o\ nom}$ [A]	U_i [V AC]	$P_{o\ tot}$ [W]	
5	8	12	1.5	5	1	85...264	50	MWE 50-21
5	3	12	0.5	12	0.5	85...264	15	MWE 15-01
5	5	12	1.2	12	0.5	85...264	30	MWE 30-01
5	8	12	1.5	12	1	85...264	50	MWE 50-01
5	3	15	0.5	15	0.5	85...264	15	MWE 15-11
5	5	15	1.2	15	0.5	85...264	30	MWE 30-11
5	8	15	1.5	15	1	85...264	50	MWE 50-11

Input

Input voltage	continuous range	85...264 V AC
Input frequency		47...63 Hz
Inrush current limitation	by thermistor, $U_i = 200$ V AC	<60 A

Output

Efficiency	230 V AC, $I_{o\ nom}$	typ. 65%
Output voltage switching noise	$U_{i\ nom}$, $I_{o\ nom}$, 20 MHz bandwidth, peak-peak	<2%
Line regulation	$U_{i\ min}...U_{i\ max}$, $I_{o\ nom}$, output 1	$\pm 2\%$
	$U_{i\ min}...U_{i\ max}$, $I_{o\ nom}$, output 2 and 3	$\pm 0.5\%$
Load regulation	$U_{i\ nom}$, 0... $I_{o\ nom}$, output 1	$\pm 2\%$
	$U_{i\ nom}$, 0... $I_{o\ nom}$, output 2	$\pm 1\%$
	$U_{i\ nom}$, 0... $I_{o\ nom}$, output 3	$\pm 0.5\%$
Minimum load	output 1	20% $I_{o\ max}$
Hold-up time	110/230 V AC, $I_{o\ nom}$	>20 ms

Protection

Output overload	continuous current, automatic reset	105% $I_{o\ nom}$
Overvoltage	MWE 50, output 1 only, manual reset	max. 140% $U_{o\ nom}$

Safety and EMC

Safety marks	NRTL/C, LGA, CE	
Electric strength test voltage	I/O	3000 V AC
Electrostatic discharge	IEC/EN 61000-4-2	6 kV, criterion A
Electromagnetic field	IEC/EN 61000-4-3	10 V/m, criterion A
Electr. fast transients/burst	IEC/EN 61000-4-4	2 kV, criterion A
Surge	IEC/EN 61000-4-5	2 kV, criterion A
Electromagnetic emissions	CISPR 22/EN 55022, conducted	class B

Environmental

Ambient temperature	$U_{i\ nom}$, $I_{o\ nom}$, with derating	0...60°C
Storage temperature	non operational	-20...75°C
Relative humidity	non condensing	30...85%
Shock	peak acceleration	20 g_n
Random vibration		2 $g_{n\ rms}$

Accessories

Cable kit	
Connector kit	

MWE Series

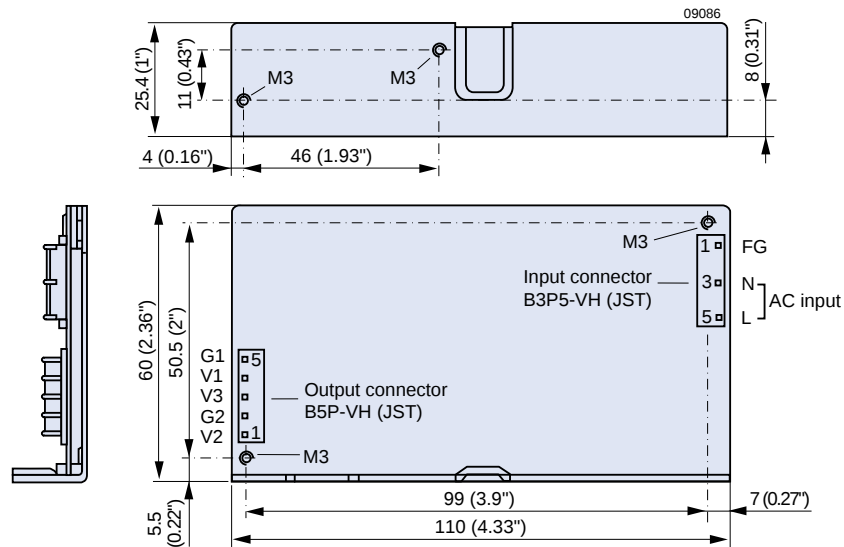
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Mechanical data

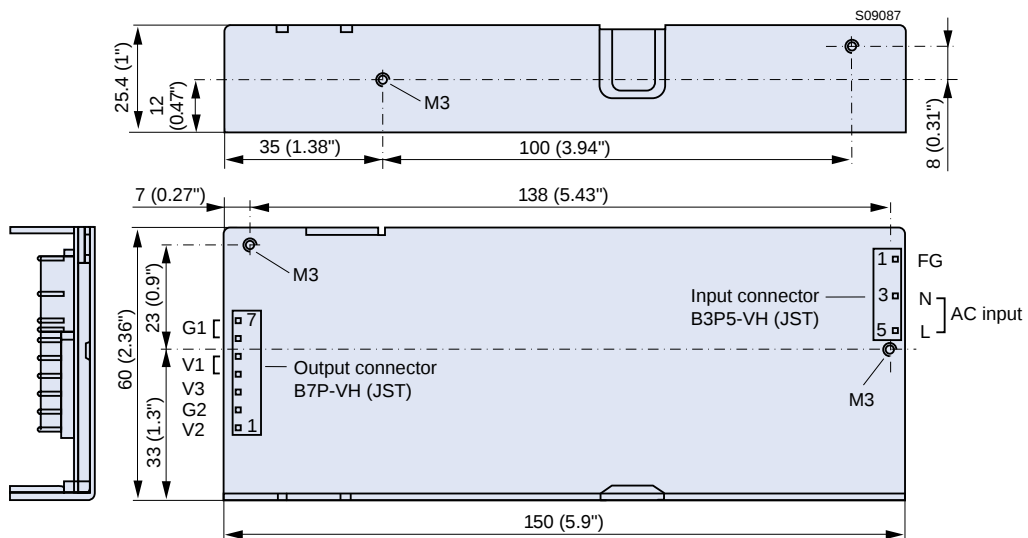
Tolerances ± 0.3 mm (0.012") unless otherwise indicated.



MWE 15



MWE 30



Open Frame

MWE Series

MWE 50

