



Features

- Universal AC input / Full range
- Medical safety approved
- Full output 3~48V safety approved
- Low leakage current $\leq 0.3\text{mA}$
- Protections: Short circuit / Over voltage / Over load / Over temp.
- Approvals: UL/ CUL/ TUV/ CB/ CE
- Fixed switching frequency and regulation
- Fully enclosed plastic case
- Topology: Top switch circuit
- LED indicator for power on
- 2 years warranty



General Specification (Please refer to www.meanwell.com for detail spec.)

ORDER No.	MES30A	MES30C	MES30B
AC input voltage range	90~264VAC / 0.8~0.4A		
AC inrush current (max.)	Cold start, <35A peak at 230VAC		
Over load protection	Hiccup mode, auto-recovery		
Over voltage protection	112~132% rated output voltage		
Setup, rise, hold up time	200ms, 50ms, 20ms at full load		
Withstand voltage	I/P-O/P:5656VDC, I/P-FG:2121VDC, 1 minute		I/P-O/P:5656VDC, 1 minute
Working temperature	0~+65°C (refer to output load derating curve)		
Safety standards	UL2601-1, TUV EN60601-1, IEC601-1 approved		
EMC standards	EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 (EN60601-1-2)		
Standard output cable	180cm of UL1185,18AWG for 8~48V output ; 120cm of UL1185,16AWG for 3~8V output		
Standard output plug	2.1 ϕ x 5.5 ϕ x 11mm / C+ (refer to page 37 for DC plug list)		
Dimension (L*W*H)(mm)	108x67x36		
Packing	54pcs/20kg		

30W (IEC 320-C14 / Class I)

Stock No.	Model No.	Output	Tol.	R&N	Effi.
13891	MES30A-0P1J	3.3V, 5.00A	$\pm 5\%$	30mV	65%
13892	MES30A-1P1J	5V, 5.00A	$\pm 5\%$	30mV	70%
13893	MES30A-1-1P1J	7.5V, 3.33A	$\pm 4\%$	40mV	72%
13894	MES30A-2P1J	9V, 3.33A	$\pm 3\%$	50mV	74%
13895	MES30A-3P1J	12V, 2.50A	$\pm 3\%$	50mV	76%
13896	MES30A-4P1J	15V, 2.00A	$\pm 3\%$	60mV	78%
13897	MES30A-5P1J	18V, 1.66A	$\pm 3\%$	70mV	78%
13898	MES30A-6P1J	24V, 1.25A	$\pm 2\%$	80mV	80%
13899	MES30A-7P1J	28V, 1.07A	$\pm 2\%$	100mV	80%
13900	MES30A-8P1J	48V, 0.62A	$\pm 2\%$	100mV	82%

30W (IEC 320-C8 / Class II)

Stock No.	Model No.	Output	Tol.	R&N	Effi.
13901	MES30B-0P1J	3.3V, 5.00A	$\pm 5\%$	30mV	65%
13902	MES30B-1P1J	5V, 5.00A	$\pm 5\%$	30mV	70%
13903	MES30B-1-1P1J	7.5V, 3.33A	$\pm 4\%$	40mV	72%
13905	MES30B-3P1J	12V, 2.50A	$\pm 3\%$	50mV	76%
13906	MES30B-4P1J	15V, 2.00A	$\pm 3\%$	60mV	78%
13908	MES30B-6P1J	24V, 1.25A	$\pm 2\%$	80mV	80%
13910	MES30B-8P1J	48V, 0.62A	$\pm 2\%$	100mV	82%

30W (IEC 320-C6 / Class I)

Stock No.	Model No.	Output	Tol.	R&N	Effi.
13911	MES30C-0P1J	3.3V, 5.00A	$\pm 5\%$	30mV	65%
13912	MES30C-1P1J	5V, 5.00A	$\pm 5\%$	30mV	70%
13913	MES30C-1-1P1J	7.5V, 3.33A	$\pm 4\%$	40mV	72%
13915	MES30C-3P1J	12V, 2.50A	$\pm 3\%$	50mV	76%
13916	MES30C-4P1J	15V, 2.00A	$\pm 3\%$	60mA	78%
13918	MES30C-6P1J	24V, 1.25A	$\pm 2\%$	80mV	80%
13920	MES30C-8P1J	48V, 0.62A	$\pm 2\%$	100mV	82%

50~60W Single Output Medical Adaptor

- Universal AC input / Full range
- IEC 320-C14 AC Inlet (Class I)
- Full range output: 5~48VDC
- Option output connectors
- Protections: Short circuit / Over load / Over voltage
- Leakage current less than 0.3mA
- Design refer to UL2601-1, TUV EN60601-1
- Design refer to EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 (EN60601-1-2)
- 2 years warranty
- Please contact our sales rep. for schedule



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We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



■ Features :

- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8
- Class II power (without earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit/ Over load/ Over voltage/ Over temp.
- Fix switching frequency and regulation
- LED indicator for power on
- Fully enclosed plastic case
- Topology: Top switch circuit
- Approvals: UL/ CUL/ TUV/ CB/ CE
- 2 years warranty

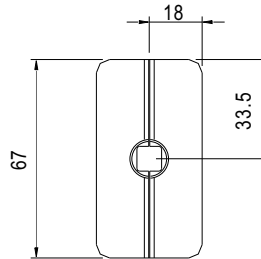
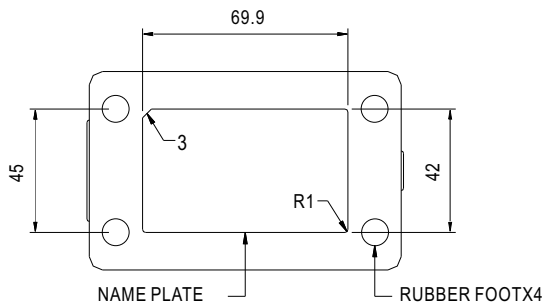
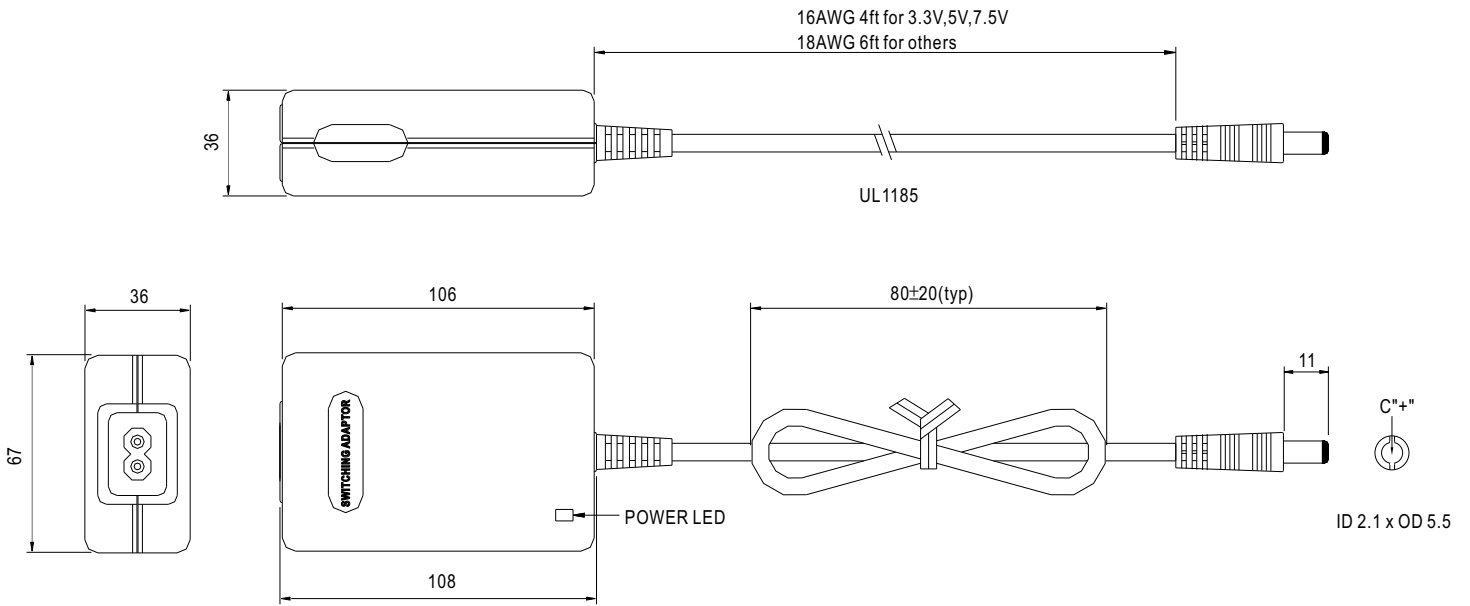


SPECIFICATION

ORDER NO.	MES30B-0P1J	MES30B-1P1J	MES30B-1-1P1J	MES30B-2P1J	MES30B-3P1J	MES30B-4P1J	MES30B-5P1J	MES30B-6P1J	MES30B-8P1J		
OUTPUT	SAFETY MODEL NO.	MES30B-0	MES30B-1	MES30B-1-1	MES30B-2	MES30B-3	MES30B-4	MES30B-5	MES30B-6	MES30B-8	
	DC VOLTAGE <small>Note.2</small>	3.3V	5V	7.5V	9V	12V	15V	18V	24V	48V	
	RATED CURRENT	5A	5A	3.33A	3.33A	2.5A	2.0A	1.67A	1.25A	0.62A	
	CURRENT RANGE	0 ~ 5A	0 ~ 5A	0 ~ 3.33A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 2.0A	0 ~ 1.67A	0 ~ 1.25A	0 ~ 0.62A	
	RATED POWER	16.5W	25W	25W	30W	30W	30W	30W	30W	30W	
	RIPPLE & NOISE (max.) <small>Note.3</small>	33mVp-p	50mVp-p	75mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	Fixed									
	VOLTAGE TOLERANCE <small>Note.4</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION <small>Note.6</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	
SETUP, RISE, HOLD TIME	300ms, 50ms, 16ms at full load										
INPUT	VOLTAGE RANGE	90 ~ 264VAC 135~370VDC									
	FREQUENCY RANGE	47~63Hz									
	EFFICIENCY (Typ.)	65%	70%	72%	74%	76%	78%	78%	80%	82%	
	AC CURRENT	0.8A / 100VAC									
	INRUSH CURRENT (max.)	35A / 230VAC									
	LEAKAGE CURRENT (max.)	0.1mA / 240VAC									
PROTECTION	OVER LOAD	112~250% rated output power				150~350% rated output power					
		Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	110~140% rated output voltage									
	Protection type : Hiccup mode, recovers automatically after fault condition is removed										
OVER TEMPERATURE	Tj 135°C typically (IC1) detect on main control IC										
	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down										
ENVIRONMENT	WORKING TEMP.	0~+40°C (Refer to output load derating curve)									
	WORKING HUMIDITY	20%~90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20~+85°C, 10~95% RH									
	TEMP. COEFFICIENT	±0.03% / °C (0~50°C)									
	VIBRATION	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC <small>(Note. 7)</small>	SAFETY STANDARDS	UL2601-1, IEC601-1, EN60601-1 Approved									
	WITHSTAND VOLTAGE	I/P-O/P: 5656VDC									
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC									
	EMI CONDUCTION & RADIATION	Compliance to EN55011(CISPR11) class B									
	HARMONIC CURRENT	Compliance to EN61000-3-2,3									
EMS IMMUNITY	Compliance to EN60601-1-2 (EN61000-4-2,3,4,5,6,8,11), ENV50204, Light industry level, criteria A										
OTHERS	MTBF	400Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	108*67*36mm (L*W*H)									
	PACKING	0.3kg ; 54pcs/ 20kg / CARTON									
CONNECTOR	PLUG	Standard type P1J: 2.1φ * 5.5φ * 11mm, turning fork type, center positive for stock ; Other type available by customer requested									
	CABLE	Standard type UL1185 for stock ; Other type available by customer requested									
NOTE	<p>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH. Ambient.</p> <p>2.DC voltage: The output voltage set at point measure by plug terminal & 50% load.</p> <p>3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.</p> <p>4.Tolerance: includes set up tolerance, line regulation, load regulation.</p> <p>5.Line regulation is measured from low line to high line at rated load.</p> <p>6.Load regulation is measured from 0% to 100% rated load.</p> <p>7.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p>										

Mechanical Specification

Unit:mm

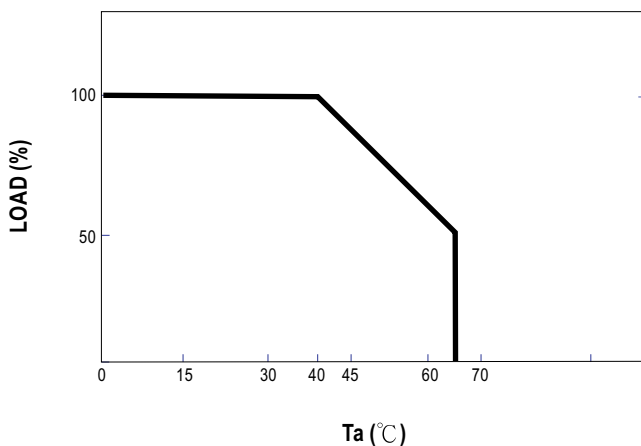


Plug Assignment

Standard plug: P1J (option)

P1J	
P/N	OUTPUT
CENTER	+

Derating Curve



Static Characteristics

