



Consumer LED MR16 Transformer and Dimmer Compatibility

Last Updated 17 November 2020

Guidelines for Consumer LED MR16 Lamps

Note: Certain combinations of transformers and dimmers may not operate properly. Use on dimming circuits with magnetic transformers is not recommended

LED MR16 lamps do not run on standard line voltage. They require a step-down transformer from line voltage to 12V AC/DC. These 12V low voltage LED lamps must use either a magnetic (L type) or electronic (C type) transformer to power the lamp.

If the LED MR16 application is to be dimmed – it must be connected to dimmer that works with the type of transformer that is in use.

There are two types of low voltage LED dimmers in the market that are referenced according to their load properties. They are either a Leading edge RL type, or a Trailing edge RC type.

We recommend using Trailing edge (RC) dimmers with Electronic transformers for best dimming performance.

We **DO NOT** recommend the use of Leading edge (RL) dimmers + Electronic transformers on LED MR16s. They have a higher risk of flicker, noise, and distortion of mains voltage

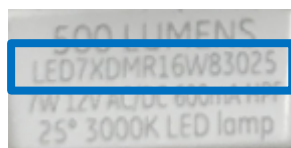
Transformer Dimmer	Magnetic (L type)	Electronic (C type)
Leading Edge / RL type	Not recommended	Not recommended
Trailing Edge / RC type	NO	Recommended

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How to find your lamp information for Consumer LED MR16 Lamps

Note: All active Consumer MR16 products are in the table on this page, and they all use the compatibility tables in following pages

1 Find the Lamp description printed on your lamp



2 Find the Package Description and PC (Product Code) on back of package

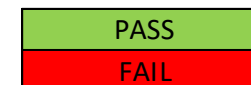


Lamp description	Package Description	PC (Product Code)	Transformer Compatibility	Dimmer Compatibility
LED4.5DMR16-C	LED4.5DMR16-C-1	93095554	Table #1	Table #2
LED4.5DMR16-C	LED4.5DMR16-C-1CDN	93099203	Table #1	Table #2
LED4.5DMR16-C	LED4.5DMR16-C-CDN2	93099205	Table #1	Table #2
LED4.5DMR16-C	LED4.5DMR16-C-3	93116243	Table #1	Table #2
LED4.5DMR16-C	LED4.5DMR16-C/CDN3	93119163	Table #1	Table #2
LED6.5DMR16-C	LED6.5DMR16-C-3	93095550	Table #1	Table #2
LED6.5DMR16-C	LED6.5DMR16-C-1	93095551	Table #1	Table #2
LED6.5DMR16-C	LED6.5DMR16-C-LT3	93096124	Table #1	Table #2
LED6.5DMR16-C	LED6.5DMR16-C-CDN	93096798	Table #1	Table #2
LED6.5DMR16-C	LED6.5DMR16-C-CDN2	93099204	Table #1	Table #2
LED6.5DMR16-C	LED6.5DMR16-C-CDN3	93119165	Table #1	Table #2
LED7DMR16AGRVL	LED7DMR16AGRVL/CDN2	93117722	Table #1	Table #2
LED7DMR16AGRVL	LED7DMR16AGRVL2	34046	Table #1	Table #2
LED5DMR16-AG7/G2	LED5DMR16-AG7/G2-LT3	93104999	Table #3	Table #4
LED6DMR16-AG7/G2	LED6DMR16-AG7/G2-LT3	93105529	Table #3	Table #4

Table #1: Consumer LED MR16 Transformer Compatibility

Note: We recommend *1* Transformer per LED Lamp

Input Voltage	Brand	Model	Dimmable ET	One lamp 108V - 132V	
				LED4.5DMR16	LED6.5DMR16, LED7DMR16
120V	Hatch	RS12-60M-LED	Y		
		RS12-30M-LED	Y		
		RS12-15M-LED	Y		
		RS12-60M	Y		
		RS12-80M	Y		
		VS12-60WD	Y		
	Lightolier(Hatch)	9175NWH	N		
	Solution	Net 1075	Y		
	Lichtech	LET75	Y		
		LET60	Y		
		LET60LW	Y		
	Juno	T537	N		
	Elite	ET412	N		
	OSRAM	ET-MZ 60/110-130	Y		
	Magnetic Transformer	N			



Input Voltage	Brand	Model	Dimmable ET	One lamp 240 - 318V	
				LED4.5DMR16	LED6.5DMR16, LED7DMR16
277V	Hatch	RS12-105BF-277	Y		
	Lichtech	LET75/277R	Y		
		LET75/277R BF	N		

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Table #2: Consumer LED MR16 Transformer with Dimmer compatibility

Note: Certain combinations of transformers and dimmers may not operate properly.

			Electronic Transformers										
			Hatch						Solution	Lichtech			
Dimmers		Brand	Model	RS12-60M LED	RS12-30M LED	RS12-15M LED	VS12-60WD	RS12-60M	RS12-80M	NET-1075	LET75	LET60 LW	LET60
Brand	Family	Model	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp
Lutron	Diva	DVELV-300P	Green	Green	Green	Yellow	Green	Yellow	Green	Green	Yellow	Green	Green
	Skylark	SELV-300P	Yellow	Green	Green	Yellow	Green	Yellow	Green	Green	Yellow	Green	Green
	LyneoLX	LXELV-600PL	Yellow	Green	Green	Yellow	Green	Yellow	Green	Green	Yellow	Green	Green
	Maestro	MAELV-600	Yellow	Green	Green	Yellow	Green	Red	Green	Green	Yellow	Green	Green
	Spacer System	SPSELV-600	Yellow	Green	Green	Yellow	Green	Red	Green	Green	Yellow	Green	Green
	Radio RA	RA-5NE	Green	Green	Green	Yellow	Green	Yellow	Green	Green	Yellow	Green	Green
	NovaT	NTELV-300	Red	Yellow	Yellow	Red	Red	Red	Green	Green	Red	Red	Yellow
	Nova	NELV-450	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Red	Red	Red

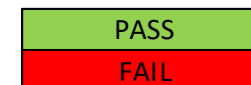
Green	Flicker free to < 10% dimming
Yellow	Slight Flicker < 20% dimming
Red	May Flicker at > 20% Dimming

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Table #3: Consumer LED MR16 Transformer Compatibility

Note: We recommend *1* Transformer per LED Lamp

Input Voltage	Brand	Model	Dimmable ET	One lamp 108V - 132V
				LED5DMR16, LED6DMR16
120V	Lichtech	LET 60	Y	PASS
		LET 75	Y	PASS
		LET 105	Y	PASS
		LET 151	Y	PASS
	Hatch	VS12-75W	N	PASS
		RS12-60	N	PASS
		RS12-80M	N	PASS
		RS12-150	N	PASS
	WAC LIGHTING	EN-12100-RB-AR	N	PASS
		EN-1260-R2	N	PASS
		EN-1275-R-AR	N	PASS
		EN-12100-R-AR	N	PASS
		EN-12150-R-AR	N	PASS
		Magnetic Transformer	N	PASS



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Table #4: Consumer LED MR16 Transformer with Dimmer compatibility

Note: Certain combinations of transformers and dimmers may not operate properly.

Dimmers			Electronic Transformer
Brand	Family	Model	Lightech LET60 1 lamp
Lutron	Skylark	SELV-300P	
Leviton	Sureslide	6615-P	
	IllumaTech	IPE-04	

	Flicker free to < 10% dimming
	Slight Flicker < 20% dimming
	May Flicker at > 20% Dimming

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Consumer LED MR11 Transformer Compatibility

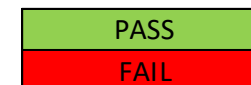
Lamp description	Package Description	PC (Product Code)
LED2NMR11U4AG/WWFL	LED2NMR11U4AG/WWFL-OT1	93129013

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Consumer LED MR11 Transformer Compatibility

Note: We recommend *1* Transformer per LED Lamp

Input Voltage	Brand	Model	Dimmable ET	LED2NMR11 108V - 132V		
				One Lamp	Two Lamps	Three Lamps
120V	Hatch	RS12-60M-LED	Y	Green	Green	Green
		RS12-30M-LED	Y	Green	Green	Green
		RS12-15M-LED	Y	Green	Green	Green
		RS12-60M	Y	Green	Green	Green
		RS12-80M	Y	Red	Red	Green
		VS12-60WD	Y	Green	Green	Green
	Lightolier(Hatch)	9175NWH	N	Red	Red	Green
	Solution	Net 1075	Y	Green	Green	Green
	Lichtech	LET75	Y	Red	Green	Green
		LET60	Y	Green	Green	Green
		LET60LW	Y	Green	Green	Green
	Juno	T537	N	Green	Green	Green
	Elite	ET401	N	Green	Green	Green
		ET412	N	Green	Green	Green
OSRAM	ET-MZ 60/110-130	Y	Red	Green	Green	



Input Voltage	Brand	Model	Dimmable ET	LED2NMR11 240V - 318V		
				One Lamp	Two Lamps	Three Lamps
277V	Hatch	RS12-105BF-277	Y	Green	Green	Green
	Lichtech	LET75/277R	Y	Red	Green	Green
		LET75/277R BF	N	Red	Green	Green

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