

## DIMMER COMPATIBILITY PERFORMANCE MR16

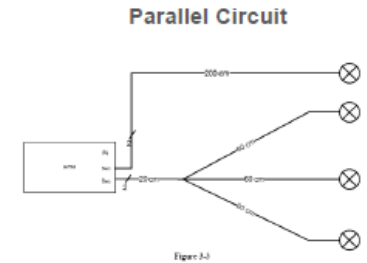
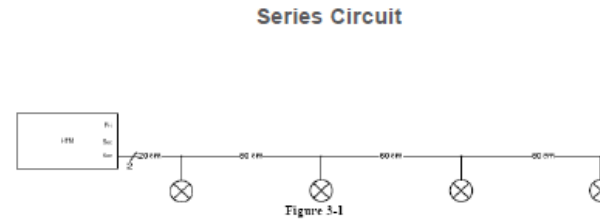
### BASIC INFORMATION:

#### 1. WHAT IS THE PRODUCT CODE AND WHERE DO I FIND IT?

The product code describes the lamp type. It contains 7 letters and digits and is starting with "A". Below an example for the product code of the stamp of the lamp:



220-240V **AC10154** 2700K  
8 W 50/60 Hz 47 mA  
Made in Germany XXX-XXXX



#### 2. HOW CAN I READ THE FOLLOWING CHARTS?

Legend:  
Information about the dimmability of the lamps. Green means very good dimmability, yellow means limited dimmability, red means undesired dimmability etc.

List of dimmers tested in laboratory conditions

Legend					PARATHOM DIM CL P							
<span style="background-color: #90EE90; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Very good dimmability with indicated number of lamps (dimming range greater than 75%)				25 Glass Frosted		25 FIL		40 Frosted		40	
<span style="background-color: #FFFF00; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Limited dimmability with indicated number of lamps (dimming range smaller than 75%)											
<span style="background-color: #FF0000; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Undesired dimmability				EAN / Basic Code		EAN / Basic Code		EAN / Basic Code		EAN / Basic Code	
<span style="background-color: #CCCCCC; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span>	Not relevant				058075101318 / AC08257 058075101333 / AC08258		4058075108165 / AC08255		4058075147935 / AC08399		4058075101418 / AC08259 4058075101395 / AC08317 4058075101432 / AC08318	
Dimmer					Dimming		Dimming		Dimming		Dimming	
Brand	Model	Voltage range	Power	Type	range 1 lamps	range 4 lamps	range 1 lamps	range 4 lamps	range 1 lamps	range 4 lamps	range 1 lamps	range 4 lamps
ABB	STD 50-3	230/50Hz	60-500	L	89-3%	100-5%	89-3%	100-5%			88-2%	99-5%
Altenburger	50_3	230/50Hz			100-3%	100-3%	100-3%	100-3%			97-2%	97-2%
AURORA	DSP 400	230/50Hz	400	R					96-10%	96-0%		
Berker	2861	230/50Hz	50-420	U	96-10%	99-8%	96-10%	99-8%			100-1%	99-9%
bticino	NT4402N	230/50Hz	500	R			96-4%	96-4%			85-2%	85-2%
Bticino	NT4408HC/HD/HS4+	230/50Hz			100-3%	100-3%	100-3%	100-3%	94-0%	96-0%		97-1%
Bticino	L/N/NT4411N	230/50Hz			100-3%	100-3%	100-3%	100-3%	94-9%	96-3%		97-2%
Busch-Jaeger	2250 U	230/50Hz	60-600	L		40-3%		40-3%				
Busch-Jaeger	6513 U-102	230/50Hz	420	T		100-3%		100-3%			97-6%	97-1%
Busch-Jaeger	6526 U	230/50Hz			100-12%	100-3%	100-12%	100-3%			96-1%	99-5%
Busch-Jaeger	6523 U-102	230/50Hz	40-420	T		100-13%		100-13%		96-6%		97-1%
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	U	95-3%	99-3%	95-3%	99-3%				96-1%
DINUY	REL1 LE1	230/50Hz	400	LED	100-3%	100-3%	100-3%	100-3%	96-4%	96-4%	100-1%	100-2%
ELKO	400GLI	230/50Hz				93-3%		93-3%				85-2%
ELKO	315GLE	230/50Hz	20-	T		100-3%		100-3%				96-2%
ELKO	600GLI	230/50Hz	40-600	U	100-3%	100-6%	100-3%	100-6%			99-2%	100-2%
ELKO	420GLE/I	230/50Hz	40-420	U		101-3%		101-3%		94-6%		97-2%

Information about the OSRAM lamp type

Assessment of the results into categories. Includes the number of lamps and the related dimming range

# DIMMER KOMPATIBILITÄT PERFORMANCE MR16

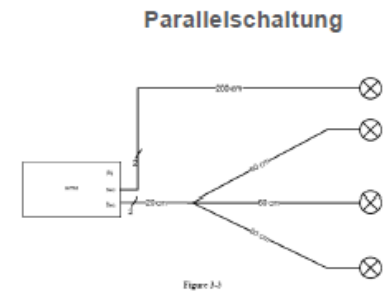
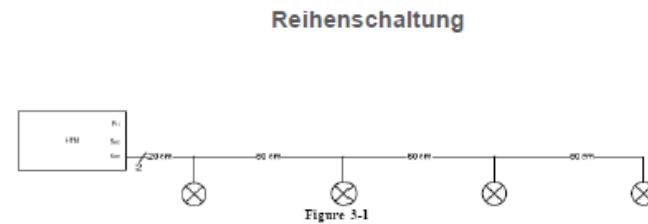
## BASISINFORMATIONEN:

### 1. WAS IST DER PRODUKTCODE UND WO FINDE ICH IHN?

Der Produktcode beschreibt den Lampentyp. Er besteht aus sieben Buchstaben und Ziffern und beginnt mit einem "A". Nachfolgend ein Beispiel eines Produktcodes auf dem Aufdruck der Lampe.



220-240V **AC10154** 2700K  
 8 W 50/60 Hz 47 mA  
 Made in Germany XXX-XXXX



### 2. WIE LESE ICH DIE FOLGENDEN TABELLEN?

Legende: Angaben zur Dimmbarkeit der Lampen. Grün bedeutet eine sehr gute Dimmbarkeit mit der angegebenen Lampenanzahl, gelb bedeutet eine eingeschränkte Dimmbarkeit, rot bedeutet, dass unerwünschtes dimmverhalten auftreten kann etc.

Legend					PARATHOM DIM CLP			
					23 Glass Frosted	25 FIL	40 Frosted	40
Very good dimmability with indicated number of lamps (dimmability range at least 75%)								
Limited dimmability with indicated number of lamps (dimmability range at least 75%)								
Undesired dimmability								
Not relevant								
Dimmer					Basic Code			
Brand	Model	Voltage range	Power	Type	23 Glass Frosted	25 FIL	40 Frosted	40
ABB	STO 50-3	230/50 Hz	60-500	L	100-2%	100-2%	100-2%	100-2%
AURORA	S.O.3	230/50 Hz			100-2%	100-2%	100-2%	100-2%
Berker	DSP 400	230/50 Hz	400	R	100-2%	100-2%	100-2%	100-2%
Bidino	NT44 02 IN	230/50 Hz	500	R	95-10%	95-4%	95-10%	95-2%
Bidino	NT44 08 HC (H2) / H24	230/50 Hz			100-2%	100-2%	94-0%	95-0%
Bidino	L/N/NT44 11N	230/50 Hz			100-2%	100-2%	94-0%	95-2%
Schwaiger	21 50 U	230/50 Hz	60-600	L	100-2%	100-2%	100-2%	100-2%
Schwaiger	651 2 U-10 2	230/50 Hz	420	T	100-2%	100-2%	100-2%	100-2%
Schwaiger	66 28 U	230/50 Hz			100-12%	100-2%	100-12%	100-2%
Schwaiger	651 2 U-10 2	230/50 Hz	40-420	T	100-12%	100-12%	100-12%	95-5%
CENTURY CONTROL	MULTI DIMMER	230/50 Hz	60-600	U	95-2%	95-2%	95-2%	95-2%
DIMBY	82 61 L 82	230/50 Hz	400	LED	100-2%	100-2%	100-2%	95-4%
ELKO	40 OGLI	230/50 Hz			100-2%	99-3%	99-3%	100-1%
ELKO	215 GLE	230/50 Hz	30-	T	100-2%	100-2%	100-2%	99-2%
ELKO	60 OGLI	230/50 Hz	40-600	U	100-2%	100-5%	100-2%	99-1%
ELKO	42 OGLI 1	230/50 Hz	40-420	U	100-2%	100-2%	94-5%	97-2%

Liste der getesteten Dimmer

Angaben zum OSRAM Lampentyp

Bewertung der Testergebnisse in Ampel Kategorien. Beinhaltet sowohl die Lampenanzahl als auch den dimmbaren Bereich

## ELECTRIC TRANSFORMER COMPATIBILITY PERFORMANCE MR16 20

No.	Transformer Inf					Lamp Qty /Nominal low voltage 1time				Lamp Qty /Nominal low voltage 0.9times				Lamp Qty /Nominal high voltage 1.06times			
	Brand	Model	Type	Voltage	Wattage	1	2	3	4	1	2	3	4	1	2	3	4
1	OSRAM	ET-A 60/220-240	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	F	F	N/A	N/A
2	OSRAM	ET-L 30/220-240	ET	220-240, 50-60Hz	2-30W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
3	OSRAM	ET-REDBBACK 40VA/230-20	ET	230-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
4	OSRAM	IZ-A50/240	ET	240,50-60Hz	50W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
5	PHILIPS	ET-E 60 220-240	ET	220-240,50-60Hz	20-60W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
6	NVC	ET60E	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
7	PAK三雄极光	PAK-070601/ PAK-070600	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
8	PHILIPS	ET-E10 LED	ET	220-240V, 50Hz	2-10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
9	Oppl	DB602-220/12	ET	220, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
10	LEDVANCE	LVED VAL 20/220-240/12 CE	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
11	LEDVANCE	LVED VAL 20/220-240/12	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
12	LEDVANCE	LVED VAL 40/230-240/12 CE	ET	220-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
13	LEDVANCE	LVED VAL 12/220-240/12	DC ET	220-240, 50-60Hz	Max 12W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	LEDVANCE	LVED VAL 10/220-240/12	DC ET	100-240V,50-60Hz	Max10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
15	OSRAM	ET-Parrot 70/220-240 I	ET	220-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G
16	OSRAM	ET-Parrot 105/220-240 I	ET	220-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
17	OSRAM	ET-Redback 60/230-240	ET	230-240, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
18	OSRAM	ET-P 60/220-240 (Gen 2)	ET	220-240, 50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
19	OSRAM	Hti DALI 105/230-240 DIM	HTi	230-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
20	OSRAM	IZ-HALD50/220-240	ET	220-240, 50-60Hz	20-50W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
21	OSRAM	ET-Z 60	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	F	N/A	N/A
22	PHILIPS	ETK 50	ET	240,50-60Hz	50W	G	G	N/A	N/A	F	F	N/A	N/A	F	F	N/A	N/A
23	PHILIPS	ET-S 60 220-240	ET	220-240,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
24	nVc	ET60DS	ET	220,50Hz	35-60W	G	G	G	G	G	G	G	G	G	G	G	G
25	JOM嘉美	ET-60A	ET	220,50Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
26	Jindel	GET-0901	ET	220V, 105W	105W	G	G	G	G	G	G	G	G	G	G	G	G
27	Next Star	LC1222W	ET	220V, 60Hz	22W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
28	CITY	Ledmrcon10n-he	ET	220V, 60Hz	10W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
29	Laluce	Laluce lighting	ET	220V, 60Hz	11W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
30	LUSTER	DWL-12V8WCV	ET	220V, 60Hz	8W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
31	Tridonic	ATCO Viper 60VA	ET	230-240V,50-60Hz	20-60W	G	G	G	G	G	G	G	G	F	F	F	F
32	Tridonic	Speedy TE-0105 C101	ET	230-240V,50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
33	HPM	Trades 65	ET	220-240V,50Hz	65W	G	G	G	G	G	G	G	G	G	G	G	G
34	HPM	Mtecougar60	ET	230-240V,50Hz	60W	G	G	G	G	G	G	G	G	G	G	G	G
35	OSRAM	ET-MZ 60/110-130	ET	110-130, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
36	JAMICON	YKCAAAA1012700CAC	ET	100-240V,50-60Hz	8.4W(max)	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
37	Neutron	ET-LED60-1	ET	110-120V,50-61Hz	60W(max)	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
38	Neutron	ET-LED60-2	ET	220-240V,50-62Hz	60W(max)	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
39	OSRAM	HTM 105W/230-240	ET	230-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
40	OSRAM	HTM 70W/230-240	ET	230-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G

## ELECTRIC TRANSFORMER COMPATIBILITY PERFORMANCE MR16 35

No.	Transformer Inf						Lamp Qty /Nominal low voltage 1time				Lamp Qty /Nominal low voltage 0.9times				Lamp Qty /Nominal high voltage 1.06times			
	Brand	Model	Country (Leading)	Type	Voltage	Wattage	1	2	3	4	1	2	3	4	1	2	3	4
1	OSRAM	ET-A 60/220-240	APAC	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	F	N/A	N/A
2	OSRAM	ET-L 30/220-240	APAC	ET	220-240, 50-60Hz	2-30W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
3	OSRAM	ET-REDBBACK 40VA/230-20	APAC	ET	230-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
4	OSRAM	IZ-A50/240	India	ET	240,50-60Hz	50W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
5	PHILIPS	ET-E 60 220-240	China	ET	220-240,50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
6	NVC	ET60E	China	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
7	PAK三雄极光	PAK-070601/ PAK-070600	China	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
8	PHILIPS	ET-E10 LED	China	ET	220-240V, 50Hz	2-10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
9	Oppl	DB602-220/12	China	ET	220, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
10	LEDVANCE	LVED VAL 20/220-240/12 CE	LKR/LME	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
11	LEDVANCE	LVED VAL 20/220-240/12	LCN/LVN/LHK/LME	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
12	LEDVANCE	LVED VAL 40/230-240/12 CE	LAU	ET	220-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
13	LEDVANCE	LVED VAL 12/220-240/12	LCN/LKC/LMY	DC ET	220-240, 50-60Hz	Max 12W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
14	LEDVANCE	LVED VAL 10/220-240/12	LTW	DC ET	100-240V,50-60Hz	Max10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
15	OSRAM	ET-Parrot 70/220-240 I	APAC	ET	220-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G
16	OSRAM	ET-Parrot 105/220-240 I	APAC	ET	220-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
17	OSRAM	ET-Redback 60/230-240	APAC	ET	230-240, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
18	OSRAM	ET-P 60/220-240 (Gen 2)	APAC	ET	220-240, 50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
19	OSRAM	Hti DALI 105/230-240 DIM	APAC	HTi	230-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
20	OSRAM	IZ-HALD50/220-240	APAC	ET	220-240, 50-60Hz	20-50W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
21	OSRAM	ET-Z 60	APAC	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	F	F	N/A	N/A
22	PHILIPS	ETK 50	India	ET	240,50-60Hz	50W	G	G	N/A	N/A	G	G	N/A	N/A	F	F	N/A	N/A
23	PHILIPS	ET-S 60 220-240	China	ET	220-240,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
24	nVc	ET60DS	China	ET	220,50Hz	35-60W	G	G	G	G	G	G	G	G	G	G	G	G
25	JOM嘉美	ET-60A	China	ET	220,50Hz	20-60W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
26	Jindel	GET-0901	China	ET	220V, 105W	105W	G	G	G	G	G	G	G	G	G	G	G	G
27	Next Star	LC1222W	Korea	ET	220V, 60Hz	22W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
28	CITY	Ledmrcon10n-he	Korea	ET	220V, 60Hz	10W	NG	N/A	N/A	N/A	NG	N/A	N/A	N/A	NG	N/A	N/A	N/A
29	Laluce	Laluce lighting	Korea	ET	220V, 60Hz	11W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
30	LUSTER	DWL-12V8WCV	Korea	ET	220V, 60Hz	8W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
31	Tridonic	ATCO Viper 60VA	Australia	ET	230-240V,50-60Hz	20-60W	G	G	G	G	G	G	G	G	F	F	F	F
32	Tridonic	Speedy TE-0105 C101	Australia	ET	230-240V,50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
33	HPM	Trades 65	Australia	ET	220-240V,50Hz	65W	G	G	G	G	G	G	G	G	G	G	G	G
34	HPM	Mtecougar60	Australia	ET	230-240V,50Hz	60W	G	G	G	G	G	G	G	G	G	G	G	G
35	OSRAM	ET-MZ 60/110-130	Taiwan	ET	110-130, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
36	JAMICON	YKCAAAA1012700CAC	Taiwan	ET	100-240V,50-60Hz	8.4W(max)	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
37	Neutron	ET-LED60-1	Taiwan	ET	110-120V,50-61Hz	60W(max)	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
38	Neutron	ET-LED60-2	Taiwan	ET	220-240V,50-62Hz	60W(max)	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
39	OSRAM	HTM 105W/230-240	South Africa	ET	230-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
40	OSRAM	HTM 70W/230-240	South Africa	ET	230-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G

## ELECTRIC TRANSFORMER COMPATIBILITY PERFORMANCE MR16 50

No.	Transformer Inf						Lamp Qty /Nominal low voltage 1time				Lamp Qty /Nominal low voltage 0.9times				Lamp Qty /Nominal high voltage 1.06times			
	Brand	Model	Country (Leading)	Type	Voltage	Wattage	1	2	3	4	1	2	3	4	1	2	3	4
1	OSRAM	ET-A 60/220-240	APAC	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
2	OSRAM	ET-L 30/220-240	APAC	ET	220-240, 50-60Hz	2-30W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
3	OSRAM	ET-REDBACK 40VA/230-240	APAC	ET	230-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
4	OSRAM	Z-A50/240	India	ET	240,50-60Hz	50W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
5	PHILIPS	ET-E 60 220-240	China	ET	220-240,50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
6	NVC	ET60E	China	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
7	PAK 三雄极光	PAK-070601/PAK-070600	China	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
8	PHILIPS	ET-E10 LED	China	ET	220-240V, 50Hz	2-10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
9	Opple	DB602-220/2	China	ET	220, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
10	LEDVANCE	LVED VAL 20/220-240/2 CE	LKR/LME	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
11	LEDVANCE	LVED VAL 20/220-240/2	LCN/LVN/LHK/LME	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
12	LEDVANCE	LVED VAL 40/230-240/2 CE	LAU	ET	220-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
13	LEDVANCE	LVED VAL 12/220-240/2	LCN/LKC/LMY	DC ET	220-240, 50-60Hz	Max 12W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
14	LEDVANCE	LVED VAL 10/220-240/2	LTW	DC ET	100-240V, 50-60Hz	Max 10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
15	OSRAM	ET-Parrot 70/220-240 I	APAC	ET	220-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G
16	OSRAM	ET-Parrot 105/220-240 I	APAC	ET	220-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
17	OSRAM	ET-Redback 60/230-240	APAC	ET	230-240, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
18	OSRAM	ET-P 60/220-240 (Gen 2)	APAC	ET	220-240, 50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
19	OSRAM	Hti DALI 105/230-240 DIM	APAC	HTi	230-240, 50-60Hz	35-105W	F	F	G	G	F	F	F	G	F	G	G	G
20	OSRAM	IZ-HALD50/220-240	APAC	ET	220-240, 50-60Hz	20-50W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
21	OSRAM	ET-Z 60	APAC	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
22	PHILIPS	ETK 50	India	ET	240,50-60Hz	50W	NG	F	G	G	NG	F	G	G	NG	F	G	G
23	PHILIPS	ET-S 60 220-240	China	ET	220-240,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
24	nVc	ET60DS	China	ET	220,50Hz	35-60W	G	G	G	G	G	G	G	G	G	G	G	G
25	JOM嘉美	ET-60A	China	ET	220,50Hz	20-60W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
26	Jindel	GET-0901	China	ET	220V, 105W	105W	G	G	G	G	G	G	G	G	G	G	G	G
27	Next Star	LC1222W	Korea	ET	220V, 60Hz	22W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
28	CITY	Ledmrcon10n-he	Korea	ET	220V, 60Hz	10W	NG	N/A	N/A	N/A	NG	N/A	N/A	N/A	NG	N/A	N/A	N/A
29	Laluce	Laluce lighting	Korea	ET	220V, 60Hz	11W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
30	LUSTER	DWL-12V8WCV	Korea	ET	220V, 60Hz	8W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
31	Tridonic	ATCO Viper 60VA	Australia	ET	230-240V,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
32	Tridonic	Speedy TE-0105 C101	Australia	ET	230-240V,50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
33	HPM	Trades 65	Australia	ET	220-240V,50Hz	65W	G	G	G	G	G	G	G	G	G	G	G	G
34	HPM	Mtecougar60	Australia	ET	230-240V,50Hz	60W	G	G	G	G	G	G	G	G	G	G	G	G
35	OSRAM	ET-MZ 60/110-130	Taiwan	ET	110-130, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
36	JAMICON	YKCAAAA1012700CAC	Taiwan	ET	100-240V,50-60Hz	8.4W(max)	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
37	Neutron	ET-LED60-1	Taiwan	ET	110-120V,50-61Hz	60W(max)	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
38	Neutron	ET-LED60-2	Taiwan	ET	220-240V,50-62Hz	60W(max)	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
39	OSRAM	HTM 105W/230-240	South Africa	ET	230-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
40	OSRAM	HTM 70W/230-240	South Africa	ET	230-240, 50-60Hz	20-70W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A

## ELECTRIC TRANSFORMER COMPATIBILITY PERFORMANCE MR16 50 LAU

No.	Transformer Inf						Lamp Qty /Nominal low voltage 1time				Lamp Qty /Nominal low voltage 0.9times				Lamp Qty /Nominal high voltage 1.06times			
	Brand	Model	Country (Leading)	Type	Voltage	Wattage	1	2	3	4	1	2	3	4	1	2	3	4
1	OSRAM	ET-A 60/220-240	APAC	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
2	OSRAM	ET-L 30/220-240	APAC	ET	220-240, 50-60Hz	2-30W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
3	OSRAM	ET-REDBBACK 40VA/230-20	APAC	ET	230-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
4	OSRAM	IZ-A50/240	India	ET	240,50-60Hz	50W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
5	PHILIPS	ET-E 60 220-240	China	ET	220-240,50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
6	NVC	ET60E	China	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
7	PAK 三雄极光	PAK-070601/PAK-070600	China	ET	220,50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
8	PHILIPS	ET-E10 LED	China	ET	220-240V, 50Hz	2-10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
9	Oppe	DB602-220/12	China	ET	220, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
10	LEDVANCE	LVED VAL 20/220-240/12 CE	LKRLME	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
11	LEDVANCE	LVED VAL 20/220-240/12	LCN/LVN/LHK/LME	ET	220-240, 50-60Hz	2-20W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
12	LEDVANCE	LVED VAL 40/230-240/12 CE	LAU	ET	220-240, 50-60Hz	10-40W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
13	LEDVANCE	LVED VAL 12/220-240/12	LCN/LKC/LMY	DC ET	220-240, 50-60Hz	Max 12W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
14	LEDVANCE	LVED VAL 10/220-240/12	LTW	DC ET	100-240V,50-60Hz	Max 10W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
15	OSRAM	ET-Parrot 70/220-240 I	APAC	ET	220-240, 50-60Hz	20-70W	G	G	G	G	G	G	G	G	G	G	G	G
16	OSRAM	ET-Parrot 105/220-240 I	APAC	ET	220-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
17	OSRAM	ET-Redback 60/230-240	APAC	ET	230-240, 50Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
18	OSRAM	ET-P 60/220-240 (Gen 2)	APAC	ET	220-240, 50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
19	OSRAM	Hi DALI 105/230-240 DIM	HTi	ET	230-240, 50-60Hz	35-105W	F	F	G	G	F	F	F	G	F	G	G	G
20	OSRAM	IZ-HALD50/220-240	APAC	ET	220-240, 50-60Hz	20-50W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
21	OSRAM	ET-Z 60	APAC	ET	220-240, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
22	PHILIPS	ETK 50	India	ET	240,50-60Hz	50W	NG	F	G	G	NG	F	G	G	NG	F	G	G
23	PHILIPS	ET-S 60 220-240	China	ET	220-240,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
24	nVc	ET60DS	China	ET	220,50Hz	35-60W	G	G	G	G	G	G	G	G	G	G	G	G
25	JOM嘉美	ET-60A	China	ET	220,50Hz	20-60W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A
26	Jindel	GET-0901	China	ET	220V, 105W	105W	G	G	G	G	G	G	G	G	G	G	G	G
27	Next Star	LC1222W	Korea	ET	220V, 60Hz	22W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
28	CITY	Ledmrcon10n-he	Korea	ET	220V, 60Hz	10W	NG	N/A	N/A	N/A	NG	N/A	N/A	N/A	NG	N/A	N/A	N/A
29	Laluce	Laluce lighting	Korea	ET	220V, 60Hz	11W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
30	LUSTER	DWL-12V8WCV	Korea	ET	220V, 60Hz	8W	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
31	Tridonic	ATCO Viper 60VA	Australia	ET	230-240V,50-60Hz	20-60W	G	G	G	G	G	G	G	G	G	G	G	G
32	Tridonic	Speedy TE-0105 C101	Australia	ET	230-240V,50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
33	HPM	Trades 65	Australia	ET	220-240V,50Hz	65W	G	G	G	G	G	G	G	G	G	G	G	G
34	HPM	Mtecougar60	Australia	ET	230-240V,50Hz	60W	G	G	G	G	G	G	G	G	G	G	G	G
35	OSRAM	ET-MZ 60/110-130	Taiwan	ET	110-130, 50-60Hz	20-60W	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
36	JAMICON	YKAAAA1012700CAC	Taiwan	ET	100-240V,50-60Hz	8.4W(max)	G	N/A	N/A	N/A	G	N/A	N/A	N/A	G	N/A	N/A	N/A
37	Neutron	ET-LED60-1	Taiwan	ET	110-120V,50-61Hz	60W(max)	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
38	Neutron	ET-LED60-2	Taiwan	ET	220-240V,50-62Hz	60W(max)	G	G	N/A	N/A	G	G	N/A	N/A	G	G	N/A	N/A
39	OSRAM	HTM 105W/230-240	South Africa	ET	230-240, 50-60Hz	35-105W	G	G	G	G	G	G	G	G	G	G	G	G
40	OSRAM	HTM 70W/230-240	South Africa	ET	230-240, 50-60Hz	20-70W	G	G	G	N/A	G	G	G	N/A	G	G	G	N/A

**Please Note:**

- The compatibility list is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to a number of factors. OSRAM does not take over any responsibility, warranty or liability that this results can also achieved by using the devices under other conditions, or when using successor models of the tested devices, or different models of the same manufacturer, or when using other LED lamp types
- The absence of a dimmer from this chart does not necessarily imply incompatibility.
- Please reference the dimmer manufacturer's instructions for installation.
- LED lamps contain several electronic components. Under unfavourable conditions these can lead to acoustic noise. In case of resonance even low noise can cause audible effect. Possible factors influencing this are the installation, the design of the lamp holder and the luminaire (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).
- Subject to change without notice
- Errors and omission excepted
- Always make sure to use the most recent release

**Application Notes:**

- For best dimming results trailing edge dimmer type is recommended.
- Trailing edge type dimmer requires the neutral wire for installation.

**Bitte beachten:**

- Die Kompatibilitätsliste basiert auf Tests, die der Hersteller in einer im Labor simulierten Umgebung durchgeführt hat. Die Ergebnisse können aufgrund verschiedener Faktoren in manchen Praxisanwendungen abweichen. OSRAM übernimmt keinerlei Verantwortung, Garantie oder Haftung dafür, dass diese Ergebnisse tatsächlich mit den Geräten unter anderen Bedingungen, mit Nachfolgemodellen der getesteten Geräte, mit anderen Modellen desselben Herstellers oder bei Verwendung anderer LED-Lampentypen erreicht werden.
- Das Fehlen eines Dimmers in der Abbildung bedeutet nicht, dass ein Dimmer nicht kompatibel ist.
- Lesen Sie stets die Installationsanweisungen des Dimmerherstellers.
- LED-Lampen bestehen aus mehreren elektronischen Komponenten. Unter ungünstigen Bedingungen können diese Störgeräusche erzeugen. Im Resonanzfall können selbst geringe Geräusche einen hörbaren Effekt hervorrufen. Einflussfaktoren können die Installation, die Gestaltung des Lampenträgers, die Leuchte (akustischer Resonanzeffekt), der Dimmer oder der Trafo (Oberschwingungen oder elektronische Resonanz) sein.
- Änderungen vorbehalten.
- Irrtümer und Auslassungen vorbehalten.
- Vergewissern Sie sich, dass Sie stets die aktuellste Version benutzen.

**Anwendungshinweis:**

- Um bestmögliche Dimmergebnisse zu erzielen, wird die Verwendung von Phasenabschnitt-Dimmern empfohlen.
- Phasenabschnitt-Dimmer erfordern bei der Installation einen Neutralleiter.

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