

TRANSFORMER COMPATIBILITY 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 **AC01770** 2700K
13 W 50/60 Hz 27 mA
Made in Germany XXX-XXXX

Series Circuit

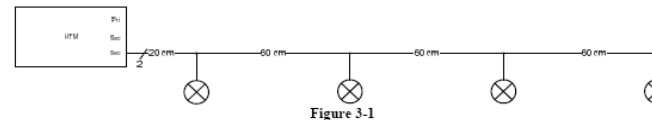


Figure 3-1

Parallel Circuit

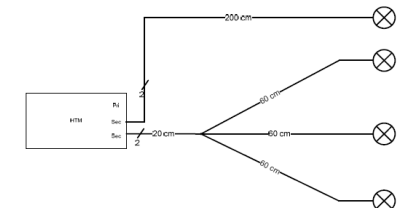


Figure 3-3

2. HOW MANY LAMPS CAN I INSTALL ON ONE TRANSFORMER?

For max. number of lamps on a transformer, please use the following rule of thumb:
(Please note: Actual number may vary from calculated result)

$$\text{Max. number of lamps} = \frac{\text{Max. load of Transformer}}{\text{Equivalent Wattage (HAL/GLS)}}$$

3. HOW CAN I READ THE FOLLOWING CHARTS?

Legend:
Information about the compatibility of the lamps. Green means good compatibility, yellow means limited compatibility and red means undesired compatibility.

List of transformers tested in laboratory conditions.

Legend					PARATHOM PRO AR111 50*	PARATHOM PRO AR111 75*	PARATHOM PRO AR111 100*	PARATHOM PRO AR111 GLOWdim	PARATHOM DIM MR11 20	PARATHOM MR11 20 non-dim
Good compatibility with indicated number of lamps										
Limited compatibility with indicated number of lamps										
Undesired compatibility										
Not tested										
EAN/Basic Code					405807544889 / AC24548	405807544889 / AC24553	405807544889 / AC24554	405807544896 / AC24547	405807526325 / AC07359	405807505157 / AC08768
EAN/Basic Code					405807544883 / AC24549	405807544892 / AC24554	405807544893 / AC24555	405807544894 / AC24550		405807505156 / AC08769
EAN/Basic Code					405807544846 / AC24552	405807544841 / AC24556	405807544842 / AC24558	405807544890 / AC24550		
EAN/Basic Code					405807544867 / AC24551	405807544885 / AC24551				
Transformers					Number of Lamps on ET					
Brand	Model	Type	Voltage	Wattage	50*	75*	100*	GLOWdim	20	non-dim
OSRAM	HTM 70/220-240	HT	220-240, 50-60Hz	20-70W	1-4	1-2	1-2	1-4	1-4	1-4
OSRAM	HTM 105/230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 70/220-240 I	ET	220-240, 50-60Hz	20-70W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 105/220-240 I	ET	220-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET 4-60/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET 4-30/220-240	ET	220-240, 50-60Hz	2-30W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTB 70/220-240	HT	220-240, 50-60Hz	20-70W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTM 75/230-240 I	HT	230-240, 50-60Hz	20-75W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTM 150/230-240	HT	230-240, 50-60Hz	50-150W	2-4	1-2	1-2	2-4	2-4	2-4
OSRAM	HTL105/230-240	HT	230-240, 50-60Hz	35-105W	3-4	1-3	1-2	3-4	1-4	1-2
OSRAM	ET 450/240	ET	240, 50-60Hz	50W	1-4	1	1-2	1-4	1-4	1-4
OSRAM	IZ-HALO50/220-240	ET	220-240, 50-60Hz	20-50W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTB 105/220-240	HT	220-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 150/220-240 I	ET	220-240, 50-60Hz	50-150W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET 25 60/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTL 225/230-240	HT	220-240, 50-60Hz	50-225W	3-4	1-2	1-2	3-4	1-4	1-4
OSRAM	OT 15/220-240/12 P	OT	220-240, 50-60Hz	15W	1-4	3	1-2	1-4	1-4	1-3
OSRAM	OT 30/220-240/12 P	OT	220-240, 50-60Hz	30W	1-2	1	1-2	1-2	1-4	1-4
OSRAM	OT 30/220-240/24 P	OT	220-240, 50-60Hz	30W	1-2	1	1-2	1-2	1-4	1-4

Information about the lamp type.

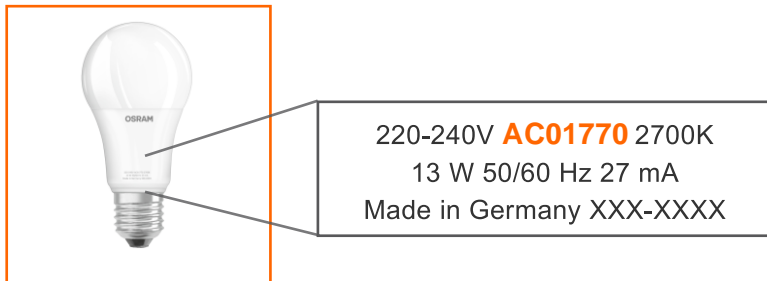
Assessment of the results into categories. Includes the number of lamps.

TRANSFORMATOR KOMPATIBILITÄT 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.



Reihenschaltung

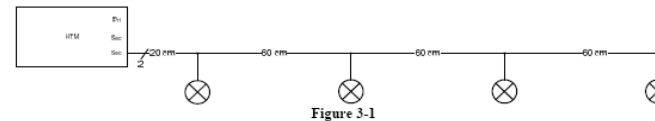


Figure 3-1

Parallelschaltung

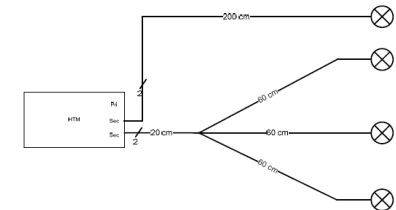


Figure 3-3

2. WIE VIELE LAMPEN KANN ICH AN EINEN TRANSFORMATOR ANSCHLIEßEN?

Die max. Anzahl an Lampen, die Sie an einen Transformator anschließen können, ergibt sich aus der folgenden Faustregel:
(Bitte beachten Sie: die tatsächliche Anzahl kann vom berechneten Ergebnis abweichen)

$$\text{Max. Anzahl von Lampen} = \frac{\text{Max. Last des Transformators}}{\text{Äquivalente Wattage (HAL/GLS)}}$$

3. WIE LESE ICH DIE FOLGENDEN TABELLEN?

Legende: Angaben zur Kompatibilität der Lampen. Grün bedeutet eine gute Eigenschaft mit der angegebenen Lampenanzahl, gelb eingeschränkte Eigenschaften und rot bedeutet eine teilweise kritische Kompatibilität.

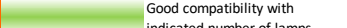








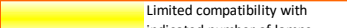
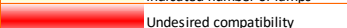
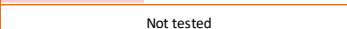
Liste der getesteten Transformatoren

Legend					PARATHOM PRO AR111 50*	PARATHOM PRO AR111 75*	PARATHOM PRO AR111 100*	PARATHOM PRO AR111 GLOWdim	PARATHOM DIM MR16 20	PARATHOM MR16 20 non-dim
Good compatibility with indicated number of lamps										
Limited compatibility with indicated number of lamps										
Undesired compatibility										
Not tested										
Transformators										
Brand	Model	Type	Voltage	Wattage	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET
OSRAM	HTM 70/230-240	HT	230-240, 50-60Hz	20-70W	1-4	1-2	1-2	1-4	1-4	1-4
OSRAM	HTM 105/230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 70/220-240 I	ET	220-240, 50-60Hz	20-70W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 105/220-240 I	ET	220-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-L 60/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-L 30/220-240	ET	220-240, 50-60Hz	2-30W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTB 70/220-240	HT	220-240, 50-60Hz	20-70W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTN75/230-240 I	ET	230-240, 50-60Hz	20-75W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTM 150/230-240	HT	230-240, 50-60Hz	50-150W	2-4	1-2	1-2	2-4	2-4	2-4
OSRAM	HTL105/230-240	HT	230-240, 50-60Hz	35-105W	3-4	1-2	1-2	3-4	3-4	3-4
OSRAM	IT-ASO/240	ET	240, 50-60Hz	50W	1-4	1	1-2	1-4	1-4	1-4
OSRAM	IT-MAX105/220-240	ET	220-240, 50-60Hz	20-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTB 105/220-240	HT	220-240, 50-60Hz	35-105W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-Parrot 150/220-240 I	ET	220-240, 50-60Hz	50-150W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	ET-L 60/220-240	ET	220-240, 50-60Hz	20-60W	1-4	1-3	1-2	1-4	1-4	1-4
OSRAM	HTL 225/230-240	HT	220-240, 50-60Hz	50-225W	3-4	1-2	1-2	3-4	3-4	3-4
OSRAM	OT 15/220-240/12 P	OT	220-240, 50-60Hz	15W	1-2	1	1-2	1-2	1-4	1-4
OSRAM	OT 30/220-240/12 P	OT	220-240, 50-60Hz	30W	1-2	1	1-2	1-2	1-4	1-4
OSRAM	OT 30/220-240/24 P	OT	220-240, 50-60Hz	30W	1-2	1	1-2	1-2	1-4	1-4

Angaben zum Lampentyp

Bewertung der Testergebnisse im Ampelsystem. Beinhaltet die Lampenanzahl für die angegebene Ampel-Kategorie.

TRANSFORMER COMPATIBILITY MR16

Legend		SUPERSTAR MR16 20 36°	SUPERSTAR MR16 35 36°	SUPERSTAR MR16 50 36°	STAR MR16 20 36° NON DIM	STAR MR16 35 36° NON DIM	STAR MR16 50 36° NON DIM	SUPERSTAR PLUS MR16 35 36°	SUPERSTAR PLUS MR16 50 36°
	Good compatibility with indicated number of lamps								
	Limited compatibility with indicated number of lamps	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code	EAN / Basic Code
	Undesired compatibility								
	Not tested								
		4058075796690 / AC42767	4058075796713 / AC45743 4058075796737 / AC45745	4058075433724 / AC45660 4058075433748 / AC45662	4058075796751 / AC45719 4099854048074 / AC45719 4099854048050 / AC45719 4058075796775 / AC45721	4058075796936 / AC45632 4058075796799 / AC45632 4099854048098 / AC45632 4058075796812 / AC45634	4058075433762 / AC45629 4058075617728 / AC45629 4058075626485 / AC45629 4058075433786 / AC45631	4058075613201 / AC35791 4058075613225 / AC35792	4058075613349 / AC35793 4058075613263 / AC35794
Electric Transformers		Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET	Number of Lamps on ET
Brand	Model								
OSRAM	HTM 70/230-240	1-4	1-4	1-4	1-4	1-4	1-4	1-4	
OSRAM	HTM 105/230-240	1-4	1-4	1-4	1-4	1-4	1-4	1-4	
OSRAM	ET-Parrot 70/220-240 I	1-4	1-4	1-4	1-4	1-4	1-4	1-4	
OSRAM	ET-Parrot 105/220-240 I	2-4	1-4	1-4	1-4	1-4	1-4	1-4	
OSRAM	ET-A 60/220-240	1-4	1-4	1-4	1-4	1-3	1-4	1-4	
OSRAM	ET-L 30/220-240	1-4	1-4	1-4	no	1-2	1-4	1-4	
OSRAM	HTB 70/220-240	1-4	1-4	1-4	1-4	1-4	1-4		
OSRAM	HALOTRNIC HTN75/230-240 I	1-4	1-4	1-4	1-4	1-4	1-4		
OSRAM	HTM 150/230-240	2-4	2-4	2-4	1-4	1	1-4		
OSRAM	HTL105/230-240	2-4	no	3-4	1-4	1-4	1-4		
OSRAM	IZ-A50/240	1-4	2-4	1-4	1-4	1-4	1	1-4	
OSRAM	IZ-HALD50/220-240	1-4	1-4	1-4	1-4	1-4	1-4	1-4	
OSRAM	HTB 105/220-240	1-4	1-4	1-4	1-4	1-4	1-4		
OSRAM	ET-Parrot 150/220-240 I	2-4	2-4	1-4	1-4	1-4	1-4	1-4	
OSRAM	ET-ZE 60/220-240	1-4	1-4	1-4	1-4	1-4	1-4	1-4	
OSRAM	HTL225	3-4	3-4		1-4	1-4	1-4		
OSRAM	OT 15/220-240/12 P	1-4	1-4		1-3	1-4			
OSRAM	OT 30/220-240/12 P	1-4	1-4	1-4	1-4	1-4	1-4		
OSRAM	OT 60/220-240/ 12 P	1-4	1-4	1-4	1-4	1-4	1-4		
SLV	461060	1-4	1-4	1-4	1-4	1-4	1-4	1-4	
BLOCK	HES 70K	1-4	1-4	1-4	no	1-4	1-3		
BLOCK	HES 105K	1-4	1-4	1-4	1-4	1-4	1-4		
EVN	TAB 70 (3310)	1-4	1-4	1-4	1-4	no	1-4		
EVN	MINJOKER 70(T27/10)	2-4	N/A	1-4	1	1-4	2		
EVN	CLOU 60(T41/09)	2-4	1-4	1-4	1-4	1-4	4		
Berker	Igel 20-105w 2921	2-4	3	2-4	1-4	1-4	4		
Berker	SNT 70/QU 2918	1-4	N/A	no	no	1-4	no		
Berker	SNTF II 35-105W 2927	4	N/A	2-4	1-4	1	1-4		
TCI	SHARK60					1-4			
TCI	PUMA 105				1-4				
TCI	ROUND 70								
TCI	MW70 LED		1-3						
Paulmann	Disc electronic S 70								
Paulmann	Profi 80								
Paulmann	Mipro 70	1-4	3-4		1-4	1-4	2-4		
JUNG	SNT 70 F	1-4	2-4	1-4	1-4	1-4	1-4		
JUNG	SNT 105 F	1-4	3-4	1-4	1-4	1-4	1-4		
nobile	EN-80F	1-4	1-4	1-4	1-4	1-4	1-4		
nobile	EN-60D2	1-4	1-4	1-4	1-4	1-4	1-4		
FN LIGHT	TL105S 20-105W 461107	1-4	1	1-4	1-4	1-4	1-4		
goodbay	SET110LV(35-110W)	1-4	1-4	1-4	1-4	1-4	1-4		
PHILIPS	Primaline 70 230-240	1-4	1-4	1-4	1-4	1-4	1-4		
abi	SET210(50-210VA) AL50476	1-4	1-4	1-4	1-4	1-4	1-4		

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. LEDVANCE 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.
- The operation of non-dimmable LED lamps on dimming devices is not permitted.
- 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 (harmonic or electronic resonance).
- Subject to change without notice.
- Errors and omission excepted.
- Always make sure to use the most recent release.

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. LEDVANCE 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.
- Der Betrieb von nicht dimmbaren LED-Lampen an Dimmgeräten ist nicht zulässig.
- 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.

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