

ELECTRIC TRANSFORMER COMPATIBILITY MR16

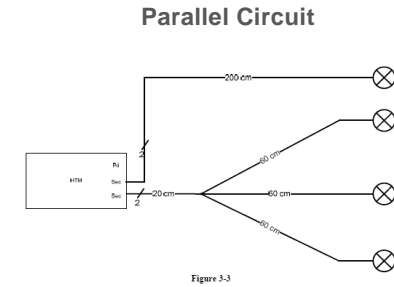
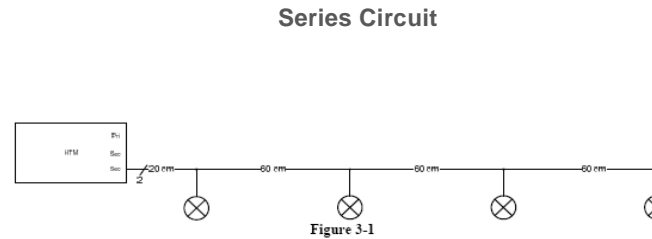
BASIC INFORMATION:

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



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

For max. number of lamps on an Electric Transformer, please use the following rule of thumb:
(Please note: actual number may vary from calculated result)

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

3. HOW CAN I READ THE FOLLOWING CHARTS?

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

List of electric transformers tested in laboratory conditions.

Legend		PARATHOM PRO										
		AR111 50	AR111 75	AR111 100	AR111 GLOWdim	MR11 20	MR11 35 non-dim					
Very good compatibility with indicated number of lamps		[Green bar]										
Good compatibility with indicated number of lamps		[Yellow bar]										
Not tested		[Red bar]										
Legend		PARATHOM PRO										
		AR111 50	AR111 75	AR111 100	AR111 GLOWdim	MR11 20	MR11 35 non-dim					
Series Circuit		OSRAM HTM 70230-240 HT 230-240 50-60Hz 20-70W	OSRAM HTM 109230-240 HT 230-240 50-60Hz 35-105W	OSRAM ET-Parrot 70220-2401 ET 230-240 50-60Hz 20-70W	OSRAM HTM 189230-240 HT 230-240 50-60Hz 50-150W	OSRAM HTN 79230-2401 HT 230-240 50-60Hz 20-75W	OSRAM ET-Parrot 189230-2401 ET 230-240 50-60Hz 35-105W	OSRAM ET-Parrot 90 ET 230V/50Hz 50-150	OSRAM HTL 189230-240 HT 230-240 50-60Hz 35-105W	OSRAM HTL 189230-240 HT 230-240 50-60Hz 50-225W	OSRAM DT 30020-2401DP DT 230V/50Hz 30	OSRAM DT 60020-2401DP DT 230V/50Hz 60
Parallel Circuit		OSRAM HTM 70230-240 HT 230-240 50-60Hz 20-70W	OSRAM HTM 109230-240 HT 230-240 50-60Hz 35-105W	OSRAM ET-Parrot 70220-2401 ET 230-240 50-60Hz 20-70W	OSRAM HTM 189230-240 HT 230-240 50-60Hz 50-150W	OSRAM HTN 79230-2401 HT 230-240 50-60Hz 20-75W	OSRAM ET-Parrot 189230-2401 ET 230-240 50-60Hz 35-105W	OSRAM ET-Parrot 90 ET 230V/50Hz 50-150	OSRAM HTL 189230-240 HT 230-240 50-60Hz 35-105W	OSRAM HTL 189230-240 HT 230-240 50-60Hz 50-225W	OSRAM DT 30020-2401DP DT 230V/50Hz 30	OSRAM DT 60020-2401DP DT 230V/50Hz 60

Information about the OSRAM lamp type

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

TRANSFORMATOR KOMPATIBILITÄT MR16

BASISINFORMATIONEN:

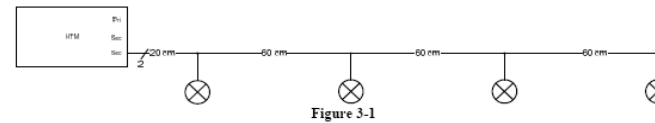
1. WAS IST DER PRODUKTCODE UND WO FINDE ICH IHN?

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.

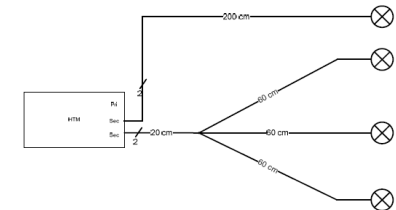


220-240V **AC01770** 2700K
13 W 50/60 Hz 27 mA
Made in Germany XXX-XXXX

Reihenschaltung



Parallelschaltung



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

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

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

3. WIE LESE ICH DIE FOLGENDEN TABELLEN?

Legende: Angaben zur Kompatibilität der Lampen. Grün bedeutet eine sehr 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	AR111 75	AR111 100	AR111 GLEW-dim	PARATHOM DIM MR111 20	PARATHOM MR111 20 non-dim	PARATHOM MR111 35 non-dim
Very good compatibility with indicated number of lamps											
Good compatibility with indicated number of lamps											
Not tested											
ELECTRIC TRANSFORMERS											
Circuit	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 70230-240	HT	230-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-4
Series Circuit	OSRAM	HTM 105230-240	HT	230-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-3	1-4	1-4
	OSRAM	ET-Parrot 70220-2401	ET	220-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-1
	OSRAM	HTM 105230-240	HT	230-240, 50-60Hz	50-105W	1-4	1-4	1-4	1-3	1-4	1-4
	OSRAM	HTN 79230-2401	HT	230-240, 50-60Hz	20-75W	1-3	1-4	1-4	1-2	1-4	1-4
	OSRAM	ET-Parrot 105220-2401	ET	220-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-2	1-4	1-2
	OSRAM	ET-Parrot 80	ET	230V/50Hz	50-75W	1-4	1-4	1-4	1-4	1-4	1-4
	OSRAM	HTL 105230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-4	1-4	1-3	2-4	1-4
	OSRAM	HTL 229230-240	HT	230-240, 50-60Hz	50-225W	1-4	1-4	1-4	1-4	3-4	1-4
	OSRAM	DT 30220-240P2	DT	230V/50Hz	30	1-2	1-2	1-2	1-2	1-4	1-4
	OSRAM	DT 60220-240P2	DT	230V/50Hz	60	1-4	1-3	1-3	1-3	1-4	1-4
Parallel Circuit	OSRAM	HTM 70230-240	HT	230-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-4
	OSRAM	HTM 105230-240	HT	230-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-3	1-4	1-4
	OSRAM	ET-Parrot 70220-2401	ET	220-240, 50-60Hz	20-70W	1-3	1-4	1-4	1-3	1-4	1-1
	OSRAM	HTM 105230-240	HT	230-240, 50-60Hz	50-105W	1-4	1-4	1-4	1-3	1-4	1-4
	OSRAM	HTN 79230-2401	HT	230-240, 50-60Hz	20-75W	1-3	1-4	1-4	1-2	1-4	1-4
	OSRAM	ET-Parrot 105220-2401	ET	220-240, 50-60Hz	35-105W	1-3	1-4	1-4	1-2	1-4	1-2
	OSRAM	ET-Parrot 80	ET	230V/50Hz	50-75W	1-4	1-4	1-4	1-4	1-4	1-4
	OSRAM	HTL 105230-240	HT	230-240, 50-60Hz	35-105W	1-4	1-4	1-4	1-3	1-4	1-4
	OSRAM	HTL 229230-240	HT	230-240, 50-60Hz	50-225W	1-4	1-4	1-4	1-4	1-4	1-4
	OSRAM	DT 30220-240P2	DT	230V/50Hz	30	1-2	1-2	1-2	1-2	1-4	1-4
OSRAM	DT 60220-240P2	DT	230V/50Hz	60	1-4	1-3	1-3	1-3	1-4	1-4	










Angaben zum OSRAM Lampentyp

Bewertung der Testergebnisse in Ampel Kategorien. Beinhaltet die Lampenanzahl für die angegebene Ampel Kategorie.

ELECTRIC TRANSFORMER COMPATIBILITY MR16

Legend						PARATHOM PRO MR16 20 36°	PARATHOM PRO MR16 35 36°	PARATHOM PRO MR16 43 36°	PARATHOM DIM MR16 20 36°	PARATHOM DIM MR16 35 36°	PARATHOM DIM MR16 50 36°	PARATHOM MR 16 20 NON DIM	PARATHOM MR 16 35 NON DIM	PARATHOM MR 16 50 NON DIM
Very good compatibility with indicated number of lamps														
Good 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	EAN / Basic Code
Undesired compatibility						4058075095663 / AC07561 4058075095649 / AC07562 4058075095625 / AC07563	4058075094994 / AC07564 4058075094970 / AC07565 4058075094918 / AC07566	4058075095069 / AC07567 4058075095045 / AC07568 4058075095014 / AC07569	4058075094871 / AC07570 4058075094857 / AC07571 4058075094833 / AC07572	4058075094956 / AC07573 4058075094932 / AC07574 4058075094895 / AC07575	4058075095120 / AC07576 4058075095106 / AC07577 4058075095083 / AC07578	4052899957749 / AC07579 4058075815391 / AC07580 4052899957732 / AC07581	4052899957770 / AC07582 4058075815513 / AC07583 4052899957787 / AC07584	4052899957817 / AC07585 4058075815575 / AC07586 4052899957824 / AC07587
Not tested														
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	Number of Lamps on ET
Brand	Model	Type	Voltage	Wattage										
OSRAM	HTM 70/230-240	ET	230-240, 50-60Hz	20-70W		1-7	1-5	1-5	1-8	1-7	1-5	1-8	1-5	1-4
OSRAM	HTM 105/230-240	ET	230-240, 50-60Hz	35-105W		1-11	1-7	1-7	1-12	1-10	1-7	1-10	1-6	1-5
OSRAM	ET-Parrot 70/220-240 I	ET APAC	220-240, 50-60Hz	20-70W		1-7	1-5	1-5	1-8	1-7	1-5	1-7	1-5	1-4
OSRAM	ET-Parrot 105/220-240 I	ET APAC	220-240, 50-60Hz	35-105W		1-11	1-7	1-7	1-12	1-10	1-7	1-6	1-6	1-5
OSRAM	ET-A 60/220-240	ET APAC	220-240, 50-60Hz	20-60W		1-6	1-4	1-4	1-7	1-6	1-4	1-7	1-5	1-4
OSRAM	ET-L 30/220-240	ET APAC	220-240, 50-60Hz	2-30W		1-3	1-2	1-2	1-3	1-3	1-2	1-4	1-4	1-3
OSRAM	ET-REDBACK 40VA/230-20	ET APAC	230-240, 50-60Hz	10-40W		1-4	1-3	1-3	1-5	1-4	1-3	1-6	1-5	1-4
OSRAM	ET-Redback 60/230-240	ET APAC	230-240, 50Hz	20-60W		1-6	1-4	1-4	1-7	1-6	1-4	1-5	1-5	1-4
OSRAM	ET-P 60/220-240 (Gen 2)	ET APAC	220-240, 50-60Hz	20-60W		1-6	1-4	1-4	1-7	1-6	1-4	1-8	1-6	1-4
OSRAM	HTB 70/220-240	ET	220-240, 50-60Hz	20-70W		1-7	1-5	1-5	1-8	1-7	1-5	1-9	1-4	1-4
OSRAM	HALOTRNIC HTN75/230-240 I	ET	230-240, 50-60Hz	20-75W		1-8	1-5	1-5	1-9	1-7	1-5	1-2	1-5	1-2 & 4
OSRAM	HTM 150/230-240	ET	230-240, 50-60Hz	50-150W		2 & 7	2-7	1-7	2-7	2-4	1-7	2-8	2-9	1-5
OSRAM	H TL105/230-240	ET	230-240, 50-60Hz	35-105W										
OSRAM	IZ-A50/240	ET India	240, 50-60Hz	50W		1-5	1-3	1-3	1-6	1-5	1-3	1-7	1-6	1-4
OSRAM	IZ-HALD50/220-240	ET APAC	220-240, 50-60Hz	20-50W		1-5	1-3	1-3	1-6	1-5	1-3	1-2 & 4-7	1-7	1-4
OSRAM	HTB 105/220-240	ET	220-240, 50-60Hz	35-105W		1-11	1-7	1-7	1-12	1-10	1-7	1-9	1-6	1-5
OSRAM	ET-Parrot 150/220-240 I	ET	220-240, 50-60Hz	50-150W		2-7	1-7	1-7	2-7	2-7	1-7	2-3	1-6	1-5
OSRAM	ET-ZE 60/220-240	ET	220-240, 50-60Hz	20-60W		1-6	1-4	1-4	1-7	1-6	1-4	1-8	1-5	2-4
OSRAM	H TL225	ET	220-240, 50-60Hz	50-225W		5-7	2-7	2-3	3-7	2 & 5-7	2-3 & 7	4-13	3-9	1-5
SLV	461060	ET	230, 50-60Hz	10-60W		1-4	1-2	1-3	1-7	1-5	1-3	1-7	1-4	1-4

ELECTRIC TRANSFORMER COMPATIBILITY MR16

Legend						PARATHOM PRO MR16 20 36°	PARATHOM PRO MR16 35 36°	PARATHOM PRO MR16 43 36°	PARATHOM DIM MR16 20 36°	PARATHOM DIM MR16 35 36°	PARATHOM DIM MR16 50 36°	PARATHOM MR 16 20 NON DIM	PARATHOM MR 16 35 NON DIM	PARATHOM MR 16 50 NON DIM
Very good compatibility with indicated number of lamps														
Good 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	EAN / Basic Code
Undesired compatibility						4058075095663 / AC07561 4058075095649 / AC07562 4058075095625 / AC07563	4058075094994 / AC07564 4058075094970 / AC07565 4058075094918 / AC07566	4058075095069 / AC07567 4058075095045 / AC07568 4058075095014 / AC07569	4058075094871 / AC07570 4058075094857 / AC07571 4058075094833 / AC07572	4058075094956 / AC07573 4058075094932 / AC07574 4058075094895 / AC07575	4058075095120 / AC07576 4058075095106 / AC07577 4058075095083 / AC07578	4052899957749 / AC07579 4058075815391 / AC07580 4052899957732 / AC07581	4052899957770 / AC07582 4058075815513 / AC07583 4052899957787 / AC07584	4052899957817 / AC07585 4058075815575 / AC07586 4052899957824 / AC07587
Not tested														
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	Number of Lamps on ET
Brand	Model	Type	Voltage	Wattage										
BLOCK	HES 70K	ET	230-240,50-60Hz	20-70W		1-7	1-5	1-5	1-8	1-7	1-5	1-8	1-4	1-4
BLOCK	HES 105K	ET	230-240,50-60Hz	35-105W		1-11	1-7	1-7	2-12	1-10	1-7	3-4 & 8-13	1-8	1-5
OSRAM	OT30	OT	220-240,50-60Hz	30W		1-3	1-2	1-2	1-3	1-3	1-2	1-4	1-4	1-2
EVN	TAB 70 (3310)	ET	230,50-60Hz	20-70W					2	1		1-4	1-4	1-3
EVN	MINIJOKER 70(T27/10)	ET	230-240,50-60Hz	10-60W		1-7	1-5	1-5	1-8	1-7	1-5		1-4	
EVN	CLOU 60(T41/09)	ET	230-240,50-60Hz	10-70W		1-6	1-4	1-4	1-7	1-6	1-4		1	
Berker	Igel 20-105w 2921	ET	230-240,50-60Hz	20-105W		5-11	1-7	1-7	2-12	2-10	1-7	2-13	2-6	1-5
Berker	SNT 70/QU 2918	ET	230,50-60Hz	20-70W		4-6	1-2	1-3	2-8		1-3	2-10	2-8	1-4
OSRAM	OT15	OT	220-240,50-60Hz	15W		1-2	1	1	1-2	1-2	1	1-4	1-2	1
Berker	SNTF II 35-105W 2927	ET	230,50-60Hz	35-105W		2-11	2-7	3-7	2-12	6-10	3-7	4-13	3-9	2-5
OSRAM	OT60	OT	220-240,50-60Hz	60W		1-6	1-4	1-4	1-7	1-6	1-4	1-8	1-7	1-4
Paulmann	Disc electronic S 70	ET	230,50-60Hz	20-70W			1-5					2-7	1-7	1-4
Paulmann	Profi 80	ET	220-240,50Hz	20-80W		1-8	1-6	1-5	1-9	1-8	1-5		3-7	2-5
Paulmann	Mipro 70	ET	230,50-60Hz	20-70W					1-8	2-6			3-8	1-4
JUNG	SNT 70 F	ET	230,50-60Hz	20-70W		1-7	1-5	1-5	1-8	1-7	1-5	1 & 3-10	1-9	1-4
JUNG	SNT 105 F	ET	230,50-60Hz	20-105W		1-11	1-7	1-7	1-12	1-10	1-7	3-10	2-6	1-5
nobile	EN-80F	ET	230,50-60Hz	20-80W		1-8	4-6	1-5	1-9	2-8	1-5	1-11	1-8	1-5
nobile	EN-60D2	ET	230,50-60Hz	20-60W		1-6	1-4	1-4	1-7	1-6	1-4	1-9	1-6	1-4
FN LIGHT	TL105S 20-105W 461107	ET	230-240,50-60Hz	20-105W								1-11	1-6	1-5
goodbay	SET110LV(35-110W)	ET	220-240,50Hz	35-110W			1-4	1-7			1-7	2-4 & 7-13	1-7	1-5
PHILIPS	Primaline 70 230-240	ET	230-240,50-60Hz	20-70W		5-7	1-5	1-5	2-8	3-6	1-5	4	3-8	4
abi	SET210(50-210VA)AL50476	ET	220-240V, 50Hz	50-210VA		1-7	1-7	1-7	1-7	1-7	1-7	2-13	1-9	1-5

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

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.

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