



**PHILIPS**

Transformer and  
dimmer list  
Professional Q3 2017



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# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
<b>Yellow</b>	Transformer is compatible but will not work according Philips claimed specifications under all conditions
<b>Red</b>	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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**Master LEDspot AR111 GU53 11-50W 24D**

		Transformer																				
		Philips						Varilight				OSRAM				Tridonic						
Brand	Model	Certaline 60	Certaline 105		Certaline 150		Primaline 70	Primaline 105		Primaline 150		YT50	YT70	HTM 70	HTM 105		HTM 150		VIPER			
Wattage		20 - 60W	35 - 150W		50 - 150W		20 - 70W	35 - 105W		50 - 150W		0 - 50W	0 - 70W	20 - 70W	35 - 105W		50 - 150W		20 - 60W			
Quantity		1 lamp	1 lamp	2 lamps	1 lamp	2 lamps	1 lamp	1 lamp	2 lamps	1 lamp	2 lamps	1 lamp	1 lamp	1 lamp	1 lamp	2 lamps	1 lamp	2 lamps	1 lamp			
Mode		TE	TE	TE	LE & TE	LE & TE	LE & TE							LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE			
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	35% - 98%	39% - 99%	38% - 99%	39% - 99%	38% - 99%	37% - 99%	33% - 99%	32% - 99%	39% - 99%	37% - 99%	19% - 99%	22% - 99%	flicker	32% - 99%	33% - 99%	29% - 99%	28% - 99%	flicker
	Gira	1176	50 - 420W	UNI	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	28% - 99%	26% - 99%	flicker	18% - 99%	19% - 99%	flicker	flicker	flicker
	Merten (Schneider)	5771	20 - 315W	TE	45% - 99%	38% - 99%	37% - 99%	36% - 99%	35% - 99%	33% - 99%	32% - 99%	33% - 99%	31% - 98%	29% - 99%	27% - 99%	23% - 100%	23% - 99%	19% - 99%	21% - 99%	34% - 99%	33% - 99%	38% - 99%
	Insta Group (Berker)	283010	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	flicker	flicker	flicker	19% - 99%	flicker	flicker	9% - 99%	10% - 99%	flicker	flicker	flicker
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	31% - 99%	29% - 99%	31% - 99%	29% - 99%	28% - 100%	24% - 99%	19% - 99%	flicker	10% - 99%	9% - 99%	15% - 99%	17% - 99%	11% - 99%
	Schneider Electric	315GLE	20 - 315W	TE	38%-100%	37% - 99%	38%-100%	34%-100%	32% - 99%	29% - 99%	28% - 99%	22% - 99%	23% - 99%	22% - 99%	17% - 99%	8% - 99%	flicker	9% - 99%	8% - 99%	18% - 99%	19% - 99%	8% - 99%



**Master LEDspot AR111 GU53 11-50W 8D**

		Transformer																
		Philips					Varilight		OSRAM		Tridonic							
Brand	Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	VIPER						
Wattage		20 - 60W	35 - 105W	50 - 150W	20 - 70W	35 - 105W	50 - 150W	0 - 50W	0 - 70W	20 - 70W	35 - 105W	20 - 60W						
Quantity		1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp						
Mode		TE	TE	TE	LE & TE	LE & TE	LE & TE			LE & TE	LE & TE	LE & TE						
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	39%-99%	45%-99%	42%-99%	flicker	37%-99%	47%-98%	15%-99%	21%-99%	flicker	33%-98%	flicker			
	Gira	1176	50 - 420W	UNI	flicker	flicker	flicker	flicker	flicker	flicker	36%-99%	29%-99%	flicker	16%-99%	flicker			
	Merten (Schneider)	5771	20 - 315W	TE	48%-99%	35%-99%	29%-99%	24%-98%	29%-98%	35%-98%	27%-99%	24%-99%	21%-98%	18%-99%	37%-99%			
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Insta Group (Berker)	283010	60 - 400W	LE	9%-96%	8%-98%	flicker	flicker	flicker	flicker	flicker	flicker	flicker	8%-99%	flicker			
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	29%-96%	30%-98%	1%-100%	6%-99%	16%-99%	flicker	21%-99%	18%-99%	flicker	12%-100%	9%-99%			
	Legrand	067081	40 - 300W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Legrand	067082	40 - 600W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Legrand	067084	40 - 300W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker			
	Legrand (Bticino)	L4407	60 - 250W	TE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	60%-100%	60%-100%	flicker	flicker	flicker
	Schneider Electric	315GLE	20 - 315W	TE	47%-99%	38%-99%	flicker	flicker	25%-99%	flicker	6%-100%	5%-99%	flicker	6%-99%	1%-100%			

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
<b>Yellow</b>	Transformer is compatible but will not work according Philips claimed specifications under all conditions
<b>Red</b>	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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**Master LEDspot LV AR111  
GU53 15-75W**

		Transformer																				
		Philips									Varilight		OSRAM				Tridonic					
Brand	Model	Certaline 60	Certaline 105		Certaline 150		Primaline 70	Primaline 105		Primaline 150		YT50	YT70	HTM 70	HTM 105		HTM 150		VIPER			
Wattage		20 - 60W	35 - 150W		50 - 150W		20 - 70W	35 - 105W		50 - 150W		0 - 50W	0 - 70W	20 - 70W	35 - 105W		50 - 150W		20 - 60W			
Quantity		1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp			
Mode		TE	TE		TE		LE & TE	LE & TE		LE & TE				LE & TE	LE & TE		LE & TE		LE & TE			
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	N.A.	35% - 99%	N.A.	flicker	38% - 99%	41% - 99%	flicker	N.A.	flicker	flicker	N.A.	41% - 99%	flicker	flicker	N.A.	39% - 99%	flicker	41% - 99%
	Gira	1176	50 - 420W	UNI	flicker	flicker	N.A.	flicker	flicker	flicker	flicker	N.A.	flicker	flicker	N.A.	34% - 99%	29% - 99%	33% - 99%	N.A.	flicker	flicker	38%-100%
	Merten (Schneider)	5771	20 - 315W	TE	N.A.	44%-100%	N.A.	47% - 99%	43%-100%	42% - 99%	42%-100%	N.A.	43%-100%	41%-100%	N.A.	39% - 99%	33% - 99%	29% - 99%	N.A.	42% - 99%	44%-100%	39% - 98%
	Insta Group (Berker)	283010	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	N.A.	flicker	flicker	N.A.	31%-100%	flicker	6%-100%	N.A.	flicker	10% - 99%	15% - 99%
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	27% - 99%	26% - 99%	N.A.	29%-100%	28% - 99%	N.A.	24%-100%	18% - 99%	11% - 99%	N.A.	6%-100%	15% - 99%	9% - 99%
	Schneider Electric	315GLE	20 - 315W	TE	N.A.	flicker	N.A.	41%-100%	37% - 99%	flicker	flicker	N.A.	55% - 99%	flicker	N.A.	46% - 99%	44% - 99%	47% - 99%	N.A.	flicker	46%-100%	43%-100%



**Master LEDspot LV AR111  
GU53 20-100W**

		Transformer																				
		Philips									Varilight		OSRAM				Tridonic					
Brand	Model	Certaline 60	Certaline 105		Certaline 150		Primaline 70	Primaline 105		Primaline 150		YT50	YT70	HTM 70	HTM 105		HTM 150		VIPER			
Wattage		20 - 60W	35 - 105W		50 - 150W		20 - 70W	35 - 105W		50 - 150W		0 - 50W	0 - 70W	20 - 70W	35 - 105W		50 - 150W		20 - 60W			
Quantity		1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp	1 lamp	1 lamp	1 lamp	2 lamp	1 lamp	2 lamp	1 lamp			
Mode		TE	TE		TE		LE & TE	LE & TE		LE & TE				LE & TE	LE & TE		LE & TE		LE & TE			
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	N.A.	32% - 99%	N.A.	flicker	N.A.	N.A.	flicker	N.A.	flicker	N.A.	N.A.	N.A.	flicker	flicker	N.A.	37% - 99%	N.A.	N.A.
	Gira	1176	50 - 420W	UNI	flicker	flicker	N.A.	flicker	flicker	flicker	flicker	N.A.	flicker	N.A.	N.A.	N.A.	32% - 99%	N.A.	flicker	N.A.	N.A.	
	Merten (Schneider)	5771	20 - 315W	TE	N.A.	44%-100%	N.A.	47% - 99%	N.A.	N.A.	42%-100%	N.A.	43%-100%	N.A.	N.A.	N.A.	29% - 99%	N.A.	43% - 99%	N.A.	N.A.	
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.			N.A.							N.A.		N.A.	
	Insta Group (Berker)	283010	60 - 400W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	N.A.	flicker	N.A.	flicker	6% - 99%	N.A.	flicker	N.A.	N.A.		
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	26% - 99%	N.A.	26%-100%	N.A.	N.A.	N.A.	13% - 99%	N.A.	5% - 99%	N.A.	N.A.	
	Legrand	67081	40 - 300W	LE	N.A.	N.A.	N.A.	N.A.	N.A.			N.A.							N.A.		N.A.	
	Legrand	67082	40 - 600W	LE	N.A.	N.A.	N.A.	N.A.	N.A.			N.A.							N.A.		N.A.	
	Legrand (Bticino)	L4407	60 - 250W	TE			N.A.					N.A.							N.A.		N.A.	
	Schneider Electric	315GLE	20 - 315W	TE	N.A.	flicker	N.A.	39%-100%	N.A.	flicker	flicker	N.A.	53% - 99%	N.A.	N.A.	N.A.	43% - 99%	N.A.	flicker	N.A.	N.A.	

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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**Master LEDspot LV**  
6.5 - 35W MR16  
DimTone

Brand	Transformer																						
	Philips												Varilight		OSRAM						Tridonic		
	Model	Certaline 105			Certaline 150			Primaline 70	Primaline 105			Primaline 150			YT50	YT70	HTM 70	HTM 105			HTM 150		

Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
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Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W
Vimar	14153	

TE	24%-98%	can't dim	19%-100%	17%-99%	15%-100%	16%-99%	17%-99%	16%-99%	18%-99%	16%-99%	15%-100%	16%-99%	17%-99%	18%-100%	20%-100%	17%-99%	13%-99%	14%-99%	14%-100%	16%-99%	13%-99%	15%-99%	17%-99%	21%-99%	
UNI	18%-99%	can't dim	17%-99%	16%-99%	17%-99%	15%-99%	16%-99%	flicker	16%-99%	15%-99%	16%-99%	17%-99%	14%-100%	16%-99%	19%-100%	18%-99%	14%-100%	15%-99%	16%-99%	13%-98%	14%-99%	15%-99%	14%-98%	11%-100%	
TE	41%-99%	can't dim	35%-100%	31%-99%	29%-99%	28%-100%	27%-99%	20%-99%	24%-99%	21%-98%	20%-99%	21%-98%	20%-99%	21%-99%	23%-99%	21%-99%	18%-99%	19%-99%	16%-99%	15%-99%	14%-99%	14%-98%	13%-98%	26%-99%	
LE	flicker	can't dim	12%-99%	14%-99%	14%-99%	14%-98%	14%-99%	3%-99%	2%-99%	2%-100%	3%-99%	4%-99%	2%-100%	3%-99%	flicker	flicker	4%-99%	5%-99%	3%-99%	4%-99%	3%-99%	4%-99%	2%-99%	5%-99%	
LE	flicker	can't dim	12%-100%	11%-100%	11%-99%	12%-99%	12%-100%	3%-99%	4%-99%	3%-99%	4%-98%	3%-99%	4%-99%	2%-100%	14%-100%	16%-99%	4%-100%	4%-99%	3%-100%	4%-98%	2%-98%	3%-99%	3%-98%	4%-99%	
LE	19%-99%	can't dim	14%-99%	12%-99%	12%-99%	12%-100%	11%-99%	4%-99%	5%-100%	4%-99%	2%-100%	4%-99%	3%-99%	5%-100%	15%-100%	14%-100%	5%-99%	6%-99%	5%-99%	4%-99%	4%-98%	3%-99%	3%-99%	6%-100%	
LE	flicker	can't dim	10%-99%	11%-100%	flicker	9%-99%	11%-99%	flicker	flicker	8%-99%	5%-99%	flicker	5%-99%	5%-99%	flicker	flicker	flicker	flicker	flicker	4%-99%	3%-99%	flicker	5%-99%	4%-100%	flicker
LE	flicker	can't dim	14%-99%	13%-99%	flicker	10%-99%	11%-100%	flicker	flicker	5%-99%	4%-98%	flicker	4%-98%	4%-99%	flicker	flicker	flicker	flicker	flicker	3%-99%	2%-99%	flicker	4%-99%	3%-99%	flicker
LE	flicker	can't dim	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	10%-100%	8%-99%	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
LE	flicker	can't dim	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
TE	flicker	can't dim	12%-99%	11%-99%	11%-99%	12%-100%	11%-98%	flicker	flicker	3%-99%	4%-98%	flicker	5%-99%	3%-99%	7%-100%	6%-99%	8%-99%	9%-99%	7%-99%	8%-99%	6%-99%	4%-98%	5%-99%	6%-98%	
	2%-99%	can't dim	10%-99%	12%-99%	12%-99%	12%-98%	12%-99%	3%-100%	3%-99%	2%-99%	3%-100%	2%-99%	3%-99%	4%-98%	3%-99%	4%-99%	4%-99%	6%-99%	7%-100%	5%-99%	4%-99%	5%-99%	4%-99%	4%-99%	



**Master LED ExpertColor**  
6.5 - 35W MR16  
**Master LED ExpertColor**  
7.5 - 43W MR16

Brand	Transformer											
	Philips						Varilight		ELT	OSRAM		Tridonic
	Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 105	HTM 150

Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
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Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

TE													
UNI													
TE													
LE													
LE													
LE													
LE													
LE													
LE													
TE													

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
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<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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**Master LEDspot LV  
6.5 - 35W MR16**

**Master LEDspot LV  
7 - 35W MR16**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

Brand	Transformer											
	Philips						Varilight		OSRAM			Tridonic
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	HTM 150	VIPER
Wattage	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W
Quantity	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp

Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
TE												
UNI												
TE												
LE												
LE												
LE												
LE												
LE												
LE												
TE												



**Master LEDspot LV  
8 - 50W MR16**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

Brand	Transformer											
	Philips						Varilight		OSRAM			Tridonic
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	HTM 150	VIPER
Wattage	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W
Quantity	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp

Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
TE												
UNI												
TE												
LE												
LE												
LE												
LE												
LE												
LE												
LE												
TE												

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
<b>Yellow</b>	Transformer is compatible but will not work according Philips claimed specifications under all conditions
<b>Red</b>	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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**Master LEDspot VLE D  
5.5 -35 MR16**

**Master LEDspot VLE D  
7 -50 MR16**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	067081	40 - 300W
Legrand	067082	40 - 600W
Legrand	067084	40 - 300W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

Transformer														
Brand	Philips						Varilight		ELT	OSRAM			TRIDONIC	
	Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 70	HTM 105	HTM 150	VIPER
Wattage	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W	20 - 60W		20 - 60W	20 - 60W	20 - 60W	20 - 60W
Quantity	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp
Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
TE	50%-90%	50%-90%	60%-90%	40%-80%	50%-90%	50%-90%	40%-90%			40%-90%		40%-80%	40%-80%	40%-80%
UNI	can't startup	60%-90%	min flicker	30%-90%	50%-90%	50%-90%	40%-90%			20%-90%		10%-90%	30%-90%	40%-80%
TE	40%-80%	60%-90%	40%-80%	30%-90%	60%-90%	30%-90%	40%-90%			40%-90%		40%-80%	10%-90%	40%-90%
LE	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%	10%-90%			flicker		20%-90%	20%-90%	20%-90%
LE	Flicker	30%-90%	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%			flicker		10%-90%	10%-90%	10%-90%
LE	30%-90%	40%-90%	20%-90%	20%-90%	30%-90%	30%-90%	30%-90%			20%-90%		10%-90%	10%-90%	10%-90%
LE	flicker	30%-90%	20%-90%	flicker	20%-90%	20%-90%	20%-90%			20%-90%		10%-90%	10%-90%	10%-90%
LE	flicker	30%-90%	20%-90%	flicker	20%-90%	20%-90%	20%-90%			flicker		flicker	20%-90%	10%-90%
LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker			flicker		flicker	flicker	flicker
LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker			flicker		flicker	flicker	flicker
TE	can't dim	70%-90%	40%-90%	30%-90%	70%-90%	70%-90%	70%-90%			40%-90%		40%-90%	40%-90%	40%-90%



**Master Value LEDspot LV  
MR16 6.3W (35W)**

Brand	Model	Watt
Busch Jaeger	6513 U-102	40 - 420W
Gira	1176	50 - 420W
Merten (Schneider)	5771	20 - 315W
Doyle & Tratt (Varilight)	HQ3W	60 - 400W
Insta Group (Berker)	283010	60 - 400W
Insta Group (Berker/ Insta)	286710/51190	20 - 360W
Legrand	67081	40 - 300W
Legrand	67082	40 - 600W
Legrand (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

Transformer																													
Brand	Philips												Varilight			OSRAM						Tridonic							
	Model	Certaline 60			Certaline 105			Certaline 150			Primaline 70		Primaline 105			Primaline 150			YT50	YT70Z	HTM 70	HTM 105			HTM 150	VIPER			
Wattage	20 - 60W			35 - 105W			50 - 150W			20 - 70W		35 - 105W			50 - 150W			0 - 50W	0 - 70W	20 - 70W		35 - 105W			50 - 150W		20 - 60W		
Quantity	1 lamp	2 lamps	1 lamp	2 lamps	3 lamps	2 lamps	3 lamps	4 lamps	1 lamp	2 lamps	1 lamp	2 lamps	3 lamps	2 lamps	3 lamps	4 lamps	1 lamp	1 lamp	2 lamp	1 lamp	2 lamps	1 lamp	2 lamps	3 lamps	2 lamps	3 lamps	4 lamps	1 lamp	2 lamps
Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	
TE	flicker	40%-90%	56%-99%	52%-99%	50%-99%	N.A.	N.A.	N.A.	40%-90%	40%-90%	40%-90%	40%-90%	30%-90%	30%-90%	30%-90%	40%-90%	40%-90%	40%-90%	40%-90%	43%-99%	43%-99%	42%-99%	42%-99%	20%-85%	20%-85%	20%-85%	40%-90%	40%-90%	
UNI	42-99%	40-99%	53%-100%	50%-100%	50%-100%	N.A.	N.A.	N.A.	53%-98%	53%-98%	can't start up	20%-90%	20%-90%	30%-90%	30%-90%	30%-90%	40%-90%	40%-90%	40%-90%	37%-99%	37%-99%	36%-99%	36%-99%	35%-90%	35%-90%	35%-90%	32%-99%	32%-99%	
TE	59%-99%	50%-99%	41-94%	40-95%	38-96%	N.A.	N.A.	N.A.	40%-95%	40%-95%	40%-95%	40%-95%	19%-98%	19%-98%	19%-98%	40%-100%	35%-90%	35%-90%	39%-98%	39%-98%	40%-99%	40%-99%	10%-80%	10%-80%	10%-80%	38%-99%	38%-99%		
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	40%-95%	flicker	5%-90%	5%-90%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	flicker	15%-90%	flicker	15%-80%	15%-80%	10%-90%	10%-90%	10%-90%	5%-95%	5%-95%	
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker (-10% position)	5%-90%	flicker	5%-95%	5%-95%	10%-90%	10%-90%	10%-90%	flicker	10%-90%	flicker	10%-95%	40-81%	40-81%	40-81%	10%-90%	10%-90%	10%-90%	5%-90%	5%-90%	
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	10%-90%	10%-90%	18%-99%	18%-99%	18%-99%	19%-99%	19%-99%	19%-99%	25%-95%	30%-90%	30%-90%	28%-99%	28%-99%	31%-99%	31%-99%	31%-99%	10%-90%	10%-90%	24%-98%	24%-98%	
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	flicker	flicker	5%-95%				flicker	flicker	5%-95%	flicker	5%-95%	flicker	5%-95%	5%-95%	5%-95%	5%-95%	flicker	5%-95%	
LE	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	flicker	flicker	flicker	5%-95%				flicker	flicker	5%-95%	flicker	5%-95%	flicker	5%-95%	5%-95%	5%-95%	5%-95%	flicker	5%-95%	
LE	can't start up	N.A.	can't dim	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	N.A.	flicker	N.A.	N.A.				flicker	N.A.	N.A.	flicker	N.A.	flicker	N.A.	N.A.	10%-90%	N.A.	N.A.	flicker	N.A.
TE	flicker at max position	5%-65%	flicker	5%-93%	5%-95%	N.A.	N.A.	N.A.	flicker	5%-90%	flicker	5%-90%	5%-90%	10%-90%	10%-90%	10%-90%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	20%-85%	20%-85%	20%-85%	1%-100%	1%-100%

# Professional LED Low Voltage range

## Recommended Low Voltage Dimmer compatibility list - LED Lamps



### KEY

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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**Corepro LED capsule  
G4 LV DIM / 2 -20W**

		Transformer																
		Philips						Varilight		ELT	OSRAM			Tridonic				
Brand	Model	Certaline 60	Certaline 105	Certaline 150	Primaline 70	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 70	HTM 105	HTM 150	VIPER				
Wattage		20 - 60W	35 - 105W	50 - 150W	20 - 70W	35 - 105W	50 - 150W	0 - 70W	20 - 70W		20 - 70W	35 - 105W	50 - 150W	20 - 60W				
Quantity		1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp				
Mode		TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE		LE & TE	LE & TE	LE & TE	LE & TE				
		pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass				
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	TE	45%-90%	turn max flicker	50%-90%	45%-90%	turn max flicker	40%-90%	40%-90%	40%-90%	30%-90%	38%-100%	42%-99%	41%-99%	44%-99%	
	Gira	1176	50 - 420W	UNI	30%-90%	turn min flicker	can't startup	30%-90%	can't startup	turn min flicker	30%-90%	30%-90%	30%-90%	30%-90%	turn min flicker	turn min flicker	can't startup	30%-90%
	Merten (Schneider)	5771	20 - 315W	TE	40%-70%	40%-70%	50%-70%	40%-70%	flicker	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	LE	30%-90%	40% flicker	30%-90%	flicker	flicker	flicker	30%-90%	30%-90%	flicker	40%-70%	40%-70%	flicker	flicker	
	Insta Group (Berker)	283010	60 - 400W	LE	20%-90%	turn min flicker	20%-90%	flicker	flicker	flicker	20%-90%	20%-90%	turn max flicker	10%-90%	10%-90%	can't startup	10%-90%	
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	LE	50%-90%	50%-90%	50%-90%	max flicker	max flicker	50%-90%	50%-90%	50%-90%	turn min flicker	20%-90%	20%-90%	flicker	flicker	10%-90%
	Legrand	67081	40 - 300W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Legrand	067082	40 - 600W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Legrand	067084	40 - 300W	LE	can't dim	can't dim	turn min flicker	flicker	flicker	flicker	30%-90%	30%-90%	N.A.	20%-90%	20%-90%	flicker	flicker	30%-90%
	Legrand (Bticino)	L4407	60 - 250W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Schneider Electric	315GLE	20 - 315W	TE	turn max flicker	turn max flicker	turn fast to max flicker	max flicker	max flicker	40%-70%	40%-70%	40%-70%	N.A.	40%-70%	40%-70%	flicker	flicker	40%-70%

**Note:**  
Philips Low Voltage lamps are only compatible with electronic ballast.  
The compatibility is tested in a lab-environment. Real applications might give different performance.  
Suppliers of dimmers and/or electronic transformers can update their products without informing Philips. The compatibility can therefore be different from above.  
If your ET is not on the list: please consult your local Philips supplier.

Philips will not accept claims for any damage caused by implementing the recommendations in this document.

# Professional LED Low Voltage range



Recommended electronic transformer compatibility list for Low Voltage lamps  
For Non-dimmable systems only

**KEY**

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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		LED spots								
		Master LED ExpertColor D 6.5 - 35W D 7.5 - 43W MR16	Master MR16 GU5.3 6.5-35W Dimtone	Master MR16 GU5.3 6.5 - 35W 7-35W D CRI90	Master MR16 GU5.3 8-50W D	MasterValue MR16 GU5.3 3.4-20W D	Master Value MR16 GU5.3 6.3-35W D	Master LEDspot VLE D 5.5 - 35W MR16	Master LEDspot VLE D 7 - 50W MR16	
Brand / type	Watt	NEW						NEW	NEW	
<b>Transformer 50-70W</b>	OSRAM Halotronic HTM 70 (new type)	20-70	1	1-2	1-2	1	1-3	1-2	1	1
	Philips Certaline 60	20-60	1	2	1	1	1-3	1-2	1	1
	SEET STE 70VA 7429	20-70	1	1-2	1-2	1	1-3	1-2	1	1
	TRIDONIC SPEEDY TE-0050 C101	20-50	1	1	1	1	1-3	2	1	1
	TCI PICO WOLF 60	10-60		1-2			2-3			
	Vossloh Schwabe EST 60/12.635	10-60	1	1-2	1	1	2-3	2	1	1
	RELCO ICE60 PFS TH 60W	10-60	1	1-2	1-2	1	1-3	1-2	1	1
	RELCO MINI ICE RN1650 70W	20-70		2	1-2	1	1-3	2	1	1
	Varilight YT50L	0-50	1	1-2	1	1	1-2	1-2	1	1
	Varilight YT70L	0-70	1	1-2	1-2	1	1-3	1-2	1	1
	TRIDONIC SPEEDY TE-0070	20-70	1	1-2	1-2	1	1-3	2	1	1
	Vossloh Schwabe EST 70/12.380	20-70	1	1-2	1-2	1	1-3	1-2	1	1
	Radiant XE060/03	20-50	1		1	1	1-2	1-2	1	1
	OSRAM ET-P 60	20-60	1	1	1	1			1	1
<b>Transformer 105W</b>	Philips Primaline 105	35-105	1-2	1-3	1-3	1-2	2-5	1-3	1-2	1-2
	OSRAM Halotronic HTM 105	35-105	1-2	2-3	1-3	1-2	2-5	1-3	1-2	1-2
	Philips Certaline 105	35-105	1-2	2-3	1-3	1-2	2-5	1-3	1-2	1-2
	Tridonic speedy TE-0105 C101	35-105	2	2-3	2-3	2	2-5	2-3	2	2
	RELCO ICE 105 PFS TH	20-105	2	2-3	1-3		2-5	1-3	1-2	1-2
	Vossloh Schwabe EST 105	20-105	1-2	1-3	1-3	1-2	2-5	1-3	1-2	1-2
	Varilight YT105L	0-105	1-2	1-3	1-3	1-2	1-5	1-3	1-2	1-2
	IBL lighting UK 4106.00 105W	35-105	2	2-3	1-3	1-2	2-5	2-3	2	2
	TCI Pico Wolf 105	20-105	1-2	2-3	1-3	1-2	1-5	1-3	1-2	1-2
	GIRA tronic trafo	20-105	2	2-3	2-3	1-2	1-5	2-3	1-2	1-2
<b>Transformer 150-160W</b>	Philips Primaline 150	50-150W	1-3	2-4	2-4	1-3	3-8	2-4	1-3	1-3
	Philips certaline 150	50-150W	1-3	2-4	2-4	1-3	3-8	2-4	1-3	1-3
	Relco ICE 150	50-150W	3	3-4	2-4	3	3-8	3-4	1-3	1-3
	Relco ICE 160 PFS TH	100-160W		3-5	3-4	3	6-8	4-5	3	3
	TCI (DIAG) T150 (WX150)	30-150W	2-3	2-4	2-4	2-3	2-8	2-4	1-3	1-3
	OSRAM HTM 150	50-150W	2-3	2-4	2-4	2-3	3-8	2-4	2-3	2-3
	SEET HA-150 code 7431	50-150W	1-3	2-4	2-4	1-3	3-8	2-4	1-3	1-3
	Varilight YT150	0-150W	1-3	1-4	1-4	1-3	1-8	2-4	1-3	1-3
<b>Transformer 210-250W</b>	RELCO ICE 200 PFS TH	100-200	4	4-7	3-5	2-4	6-10	4-6	3-4	3-4
	SEET HA 210 code 7432	50-210	2-4	2-6	2-6	2-4	3-10	3-6	1-4	1-4
	TCI W210	50-210	2-4	3-6	3-6	2-4	3-10	3-6	3-4	3-4
	RELCO ICE 250 PFS TH	100-250	4-5		3-7			6	3-4	3-4
	VARILIGHT YT 250	0-250	1-5	3-7	1-7	1-5	1-10	1-7	1-5	1-5
	TCI W250	50-250	2-5	4-7	3-7	2-5	3-10	2-7	2-5	2-5

- Notes:**
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the transformers can be loaded with more lamps than is specified in this document (most transformers can be loaded with LED lamps to 20% of specified power)
  - #2) This list is based on measurements in a lab environment.
  - #3) Transformer manufacturers may change the technical design of the transformer without informing LED lamp suppliers. These changes can influence the performance of LED products.
  - #4) Magnetic transformers are not compatible

If your Electronic Transformer is not on the list: please consult your local Philips supplier for guidance

**Disclaimer:**  
Philips will not accept claims for any damage caused by implementing the recommendations in this document.



# Professional LED Low Voltage range



Recommended electronic transformer compatibility list for Low Voltage lamps  
For Non-dimmable systems only

**KEY**

<b>x-y</b>	Transformer is compatible with x - y lamp
	Transformer is compatible but will not work according Philips claimed specifications under all conditions
	Transformer is not compatible and therefore will not comply to Philips claimed specifications.
<b>N.A.</b>	Transformer lamp combination not applicable/relevant
<b>T.B.D.</b>	Transformer lamp combination not tested

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	Brand / type	Watt	LED spots					LED capsule			
			Master AR111 GU53 11-50W D	Master AR111 GU53 15-75W D	Master AR111 GU53 20-100W D	Master MR11 2.6-20W ND	Corepro MR16 GU5,3 3 - 20W ND	Corepro MR16 GU5,3 5 - 35W ND	Corepro MR16 GU5,3 8 - 50W ND	Corepro G4 1.2 - 10W ND	Corepro G4 2 - 20W ND
Transformer 50-70W	OSRAM Halotronic HTM 70 (new type)	20-70	1	1	N.A.	1-3	1-3	1-2	1	4-10	2-7
	Philips Certaline 60	20-60	1	N.A.	N.A.	1-3	1-3	1-2	1	2-6	2-6
	SEET STE 70VA 7429	20-70	1	1	N.A.	1-3	1-3	1-2	1	4-10	2-7
	TRIDONIC SPEEDY TE-0050 C101	20-50	1	N.A.	N.A.	1-2		2			
	TCI PICO WOLF 60	10-60	1	N.A.	N.A.	2-3					
	Vossloh Schwabe EST 60/12.635	10-60	1	N.A.	N.A.	1-3	1-3	1-2			
	RELCO ICE60 PFS TH 60W	10-60	1	N.A.	N.A.	1-3	1-3	1-2	1	2-10	1-6
	RELCO MINI ICE RN1650 70W	20-70	1	1	N.A.	1-3					2-7
	Varilight YT50L	0-50	1	N.A.	N.A.	1-2	1-2	1	1	1-8	3-5
	Varilight YT70L	0-70	1	1	N.A.	1-3	1-3	1-2	1	1-10	2-5
	TRIDONIC SPEEDY TE-0070	20-70	1		N.A.	2-3					
	Vossloh Schwabe EST 70/12.380	20-70	1	1	N.A.	1-3	1-3	1-2	1		2-7
	Radiant XE060/03	20-50	1	N.A.	N.A.	1	1-2	1	1	4-8	4-6
	OSRAM ET-P 60	20-60	1	N.A.	N.A.	2-3	1-3	1	1		
Transformer 105W	Philips Primaline 105	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	OSRAM Halotronic HTM 105	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	Philips Certaline 105	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	Tridonic speedy TE-0105 C101	35-105	2			2-5	2-5	1-3	2		
	RELCO ICE 105 PFS TH	20-105	1-2	1	1	2-5		1-3			
	Vossloh Schwabe EST 105	20-105	1-2	1	1	2-5	1-5	1-3	1-2	4-10	2-10
	Varilight YT105L	0-105	1-2	1	1	2-5	1-5	1-3	1-2	1-10	2-10
	IBL lighting UK 4106.00 105W	35-105	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	TCI Pico Wolf 105	20-105	1-2	1	1	2-5	2-5	1-3	1-2	4-10	2-10
	GIRA tronic trafo	20-105	1-2	1	1	2-5		1-3	1-2		2-10
Transformer 150-160W	Philips Primaline 150	50-150W	1-2	1-2	1	3-7	3-7	2-4	1-3	9-10	5-10
	Philips certaline 150	50-150W	1-2	1-2	1	3-7	3-7	2-4	2-3	9-10	
	Relco ICE 150	50-150W	1-2	2		3-7	3-7	2-4		9-10	5-10
	Relco ICE 160 PFS TH	100-160W	1-2	2		5-7					
	TCI (DIAG) T150 (WX150)	30-150W	1-2	1-2	1	2-7	2-7	1-4	2-3	5-10	5-10
	OSRAM HTM 150	50-150W	1-2	1-2	1	3-7	3-7	3-4	1-3	9-10	
	SEET HA-150 code 7431	50-150W	1-3	1-2	1	3-7	4-7	2-4		9-10	6-10
	Varilight YT150	0-150W	1-3	1-2	1	1-7	1-7	1-4	1-3	1-10	1-10
Transformer 210-250W	RELCO ICE 200 PFS TH	100-200	2-4	2	2	5-10					
	SEET HA 210 code 7432	50-210	1-4	2	1-2	3-10				9-10	
	TCI W210	50-210	2-4	2	1-2	3-10	5-10	2-6			
	RELCO ICE 250 PFS TH	100-250	3-5			5-10					
	VARILIGHT YT 250	0-250	1-5	1-3	1-2	1-10	1-10	1-7	1-5	5-10	1-10
	TCI W250	50-250	2-5	2-3	1-2	3-10	3-10	2-7			

- Notes:**
- #1) Unexpected behaviour can occur outside the range of specified number of lamps. The mentioned numbers are tested. In some cases the transformers can be loaded with more lamps than is specified in this document (most transformers can be loaded with LED lamps to 20% of specified power)
  - #2) This list is based on measurements in a lab environment.
  - #3) Transformer manufacturers may change the technical design of the transformer without informing LED lamp suppliers. These changes can influence the performance of LED products.
  - #4) Magnetic transformers are not compatible.

If your Electronic Transformer is not on the list: please consult your local Philips supplier for guidance

**Disclaimer:**  
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