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Transformer and
dimmer list
Professional Q3 2018



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Professional LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

x-y	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.
N.A	Transformer lamp combination not applicable/relevant
T.B.D	Transformer lamp combination not tested

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				Transformer																									
				Brand		Philips																Vortlight		OSRAM				Tridonic	
				Model	Certaine 60	Certaine 105		Certaine 150		Primaline 105		Primaline 150		YT50	YT70	HTM 70	HTM 105		HTM 150		VIPER								
				Wattage	20 - 60W	35 - 150W		50 - 150W		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	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									
Dimmer	Brand	Model	Watt	TE	35% - 98%	39% - 99%	38% - 99%	30% - 99%	38% - 99%	33% - 99%	32% - 99%	39% - 99%	37% - 99%	19% - 99%	22% - 99%	flicker	32% - 99%	33% - 99%	29% - 99%	28% - 99%	flicker								
	Busch Jaeger	6513 U-102	40 - 420W	UNI	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	28% - 99%	26% - 99%	flicker	18% - 99%	9% - 99%	flicker	flicker	flicker								
	Gira	1176	50 - 420W	TE	45% - 99%	38% - 99%	37% - 99%	36% - 99%	35% - 99%	32% - 99%	31% - 99%	31% - 98%	29% - 99%	27% - 99%	23% - 100%	23% - 99%	19% - 99%	27% - 99%	34% - 99%	33% - 99%	38% - 99%								
	Merten (Schneider)	5771	20 - 315W	LE	N.A	N.A	N.A	N.A	N.A	N.A	flicker	flicker	flicker	19% - 99%	flicker	flicker	9% - 99%	10% - 99%	flicker	flicker	flicker								
	Insta Group (Berker)	283030	60 - 400W	LE	N.A	N.A	N.A	N.A	N.A	N.A	20% - 99%	31% - 99%	29% - 99%	28% - 100%	24% - 99%	19% - 99%	flicker	10% - 99%	9% - 99%	15% - 99%	17% - 99%								
	Insta Group (Berker / Insta)	286710/51190	20 - 360W	LE	N.A	N.A	N.A	N.A	N.A	N.A	20% - 99%	31% - 99%	29% - 99%	28% - 100%	24% - 99%	19% - 99%	flicker	10% - 99%	9% - 99%	15% - 99%	17% - 99%								
	Schneider Electric	315GLE	20 - 315W	TE	38% - 100%	37% - 99%	38% - 100%	34% - 100%	32% - 99%	28% - 99%	27% - 99%	23% - 99%	22% - 99%	17% - 99%	8% - 99%	flicker	9% - 99%	8% - 99%	18% - 99%	19% - 99%	8% - 99%								

 Master LEDspot AR111 GUC3 11-50W 8D			Transformer														OSRAM				Tridonic	
			Brand		Certealine 60		Certealine 105		Certealine 150		Primaline 105		Primaline 150		Varilight		HTM 70		HTM 105		VIPER	
			Model		20 - 60W		35 - 105W		50 - 150W		35 - 105W		50 - 150W		YT50		YT70		20 - 70W		35 - 105W	
			Wattage		1 lamp		1 lamp		1 lamp		1 lamp		1 lamp		1 lamp		1 lamp		1 lamp		1 lamp	
Quantity			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			
Dimmer	Busch Jäger	6513 U-102	40 - 420W	TE	39%-99%	43%-99%	42%-99%	37%-99%	47%-98%	15%-99%	21%-99%	flicker	33%-98%	flicker	flicker	33%-98%	16%-99%	flicker	flicker	flicker		
	Gira	1176	50 - 420W	UNI	flicker	flicker	flicker	flicker	flicker	30%-99%	29%-99%	flicker	16%-99%	flicker	flicker	27%-98%	18%-99%	flicker	flicker	flicker		
	Merten (Schneider)	5771	20 - 315W	TE	48%-99%	35%-99%	29%-99%	29%-98%	35%-98%	27%-99%	24%-99%	flicker	17%-99%	flicker	flicker	27%-98%	18%-99%	flicker	flicker	flicker		
	Doyle & Pratt (Varilight)	HQ3W	60 - 400W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker		
	Insta Group (Berker)	283030	60 - 400W	LE	9%-96%	8%-98%	flicker	flicker	flicker	15%-99%	15%-99%	flicker	8%-99%	flicker	flicker	flicker	8%-99%	flicker	flicker	flicker		
	Insta Group (Berker / Insta)	286710/51190	20 - 360W	LE	29%-90%	30%-98%	1%-100%	16%-99%	flicker	21%-99%	18%-99%	flicker	17%-100%	9%-99%	flicker	flicker	flicker	flicker	flicker	flicker		
	Legrand	067081	40 - 300W	LE	flicker	flicker	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	flicker	flicker		
	Legrand	067084	40 - 300W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker		
	Legrand (Riccio)	14407	60 - 150W	TE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	60%-100%	60%-100%	flicker	flicker	flicker	flicker	flicker		
Schneider Electric	315GLE	20 - 315W	TE	47%-99%	38%-99%	flicker	25%-99%	flicker	6%-100%	5%-99%	flicker	6%-99%	1%-100%	flicker	flicker	flicker	flicker	flicker	flicker	flicker		



Professional LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

x-y	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.
N.A	Transformer lamp combination not applicable/relevant
T.B.D	Transformer lamp combination not tested

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Master LEDspot LV AR111 GU53 15-75W		
Brand	Model	Watt
Dimmer	Busch Jaeger	6513 U-102 40 - 420W
	Gira	1176 50 - 420W
	Merten (Schneider)	5771 20 - 315W
	Insta Group (Berker)	283010 60 - 400W
	Insta Group (Berker / Insta)	286710/51190 20 - 360W
	Schneider Electric	315GLE 20 - 315W

Transformer																	
Brand	Philips								Varilight			OSRAM				Tridonic	
Model	Certaline 60	Certaline 105		Certaline 150		Primaline 105		Primaline 150		Y150	Y170	HTM 70	HTM 105		HTM 150		VIPER
Wattage	20 - 60W	35 - 150W		50 - 150W		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	2 lamps	2 lamps	1 lamp	1 lamp	1 lamp	1 lamp	2 lamps	2 lamps	1 lamp	2 lamps	1 lamp
Mode	TE	TE		TE		LE & TE		LE & TE				LE & TE		LE & TE		LE & TE	
TE	N.A	33% - 99%	N.A	flicker	38% - 99%	flicker	N.A	flicker	flicker	N.A	41% - 99%	flicker	flicker	N.A	37% - 99%	flicker	48% - 99%
UNI	flicker	flicker	N.A	flicker	flicker	flicker	N.A	flicker	flicker	N.A	34% - 99%	29% - 99%	33% - 99%	N.A	flicker	flicker	38% - 100%
TE	N.A	44% - 100%	N.A	47% - 99%	43% - 100%	42% - 100%	N.A	43% - 100%	41% - 100%	N.A	33% - 99%	33% - 99%	29% - 99%	N.A	42% - 99%	41% - 100%	33% - 98%
LE	N.A	N.A	N.A	N.A	N.A	flicker	N.A	flicker	flicker	N.A	37% - 100%	flicker	6% - 100%	N.A	flicker	10% - 99%	15% - 99%
LE	N.A	N.A	N.A	N.A	N.A	26% - 99%	N.A	29% - 100%	28% - 99%	N.A	24% - 100%	18% - 99%	11% - 99%	N.A	6% - 100%	15% - 99%	7% - 99%
TE	N.A	flicker	N.A	41% - 100%	37% - 99%	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		
Brand	Model	Watt
Dimmer	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 / 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 105		Primaline 150		Y150	Y170	HTM 70	HTM 105		HTM 150		VIPER
Wattage	20 - 60W	35 - 105W		50 - 150W		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	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	
TE	N.A.	32% - 99%	N.A.	flicker	N.A.	flicker	N.A.	flicker	N.A.	N.A.	N.A.	flicker	flicker	N.A.	37% - 99%	N.A.	N.A.
UNI	flicker	flicker	N.A.	flicker	N.A.	flicker	N.A.	flicker	N.A.	N.A.	N.A.	N.A.	32% - 99%	N.A.	flicker	N.A.	N.A.
TE	N.A.	44%-100%	N.A.	47% - 99%	N.A.	47%-100%	N.A.	43%-100%	N.A.	N.A.	N.A.	N.A.	29% - 99%	N.A.	43% - 99%	N.A.	N.A.
LE	N.A.	N.A.	N.A.	N.A.	N.A.		N.A.		N.A.					N.A.		N.A.	
IF	N.A.	N.A.	N.A.	N.A.	N.A.	flicker	N.A.	flicker	N.A.	N.A.	N.A.	flicker	6% - 99%	N.A.	flicker	N.A.	N.A.
LE	N.A.	N.A.	N.A.	N.A.	N.A.	26% - 99%	N.A.	26%-100%	N.A.	N.A.	N.A.	N.A.	13% - 99%	N.A.	5% - 99%	N.A.	N.A.
IF	N.A.	N.A.	N.A.	N.A.	N.A.		N.A.		N.A.					N.A.		N.A.	
LE	N.A.	N.A.	N.A.	N.A.	N.A.		N.A.		N.A.					N.A.		N.A.	
TE			N.A.				N.A.		N.A.					N.A.		N.A.	
TE	N.A.	flicker	N.A.	39%-100%	N.A.	flicker	N.A.	53% - 99%	N.A.	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

x-y	Transformer is compatible with x - y lamp
x-y	Transformer is compatible but will not work according Philips claimed specifications under all conditions
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N.A	Transformer lamp combination not applicable/relevant
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**Master LEDspot LV MR16
8-50W D**

Brand	Model	Watt
Dimmer	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 / Insta) 283010	60 ~ 400W
	Insta Group (Berker / Insta) 286710/51190	20 ~ 360W
	Legrand 067081	40 ~ 300W
	Legrand 067082	40 ~ 600W
	Legrand 067084	40 ~ 300W
	Legrand (Bicidno) AR15364	
	Legrand (Bicidno) L4407	60 ~ 250W
	Schneider Electric 315GLE	20 ~ 315W

Transformer														
Brand	Philips					Varilight		ELT	Aurora	Mino	OSRAM			Tridonic
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	AU-60	125157	HTM 70	HTM 105	HTM 150	VIPER
Quantity	1 lamp	2 lamps	2 lamps	1 lamp	2 lamps	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	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
TE	flicker	40%~90%	50%~90%	50%~90%	40%~90%	40%~90%	40%~90%	40%~90%			40%~90%	40%~90%	40%~90%	40%~90%
UNI	cannot dim	50%~90%	50%~90%	30%~90%	50%~90%	40%~90%	40%~90%	40%~90%			30%~90%	30%~90%	40%~90%	30%~90%
TE	flicker	50%~90%	50%~90%	50%~90%	50%~90%	50%~90%	50%~90%	flicker			30%~90%	30%~90%	50%~90%	40%~90%
LE	flicker	10%~90%	10%~90%	10%~90%	10%~90%	10%~90%	10%~90%	flicker			10%~90%	10%~90%	10%~90%	10%~90%
LE	flicker	10%~90%	10%~90%	10%~90%	10%~90%	10%~90%	10%~90%	flicker			10%~90%	10%~90%	10%~90%	10%~90%
LE	flicker	10%~90%	flicker	30%~90%	30%~90%	flicker	flicker	flicker			30%~90%	30%~90%	max flicker	10%~90%
LE	flicker	20%~90%	20%~90%	flicker	10%~90%	10%~90%	10%~90%	10%~90%			10%~90%	10%~90%	10%~90%	flicker
LE	flicker	10%~90%	10%~90%	flicker	10%~90%	20%~90%	20%~90%	cannot dim			flicker	flicker	20%~90%	flicker
LE					flicker									flicker
TE	flicker	flicker	flicker		flicker		flicker							flicker
TE	flicker	10%~90%	10%~90%	max flicker	flicker	10%~90%	10%~90%	flicker			10%~90%	10%~90%	10%~90%	10%~90%



**Master LEDspot MR16
GU5.3
5-35W
DimTone**

Brand	Model	Watt
Dimmer	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 / Insta) 283010	60 ~ 400W
	Insta Group (Berker / Insta) 286710/51190	20 ~ 360W
	Legrand 067081	40 ~ 300W
	Legrand 067082	40 ~ 600W
	Legrand 067084	40 ~ 300W
	Legrand (Bicidno) L4407	60 ~ 250W
	Schneider Electric 315GLE	20 ~ 315W

Transformer												
Brand	Philips					Varlight		ELT	OSRAM			Tridonic
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	YT50	YT50	TCE 6/23-E	HTM 70	HTM 105	HTM 150	VIPER
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
TE	<40%	<40%	<40%	flicker	<40%	<40%	<40%	<40%			<50%	<40%
UNI		flicker			<40%							
TE	<50%	<50%		<50%	<50%	<40%	<50%		<40%	<40%	<40%	<40%
LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	
LE								flicker				flicker
LE												
LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	
LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	
LE								flicker			flicker	
TE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
TE								flicker			flicker	



Professional LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

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			Transformer																											
Brand	Model	Watt	Philips												Varilight			OSRAM						Tridonic						
			Certaline 60			Certaline 105			Certaline 150			Primaline 105			Primaline 150			YT50	YT70	HTM 70	HTM 105		HTM 150		VMPR					
			20 - 60W			50 - 150W			50 - 150W			35 - 105W			50 - 150W			0 - 50W	0 - 70W	20 - 70W	35 - 105W		50 - 150W		20 - 60W					
			Quantity	1 lamp	1 lamp	2 lamps	3 lamps	1 lamp	2 lamps	3 lamps	1 lamp	2 lamps	3 lamps	1 lamp	2 lamps	3 lamps	1 lamp	1 lamp	1 lamp	1 lamp	2 lamps	3 lamps	1 lamp	2 lamps	3 lamps	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	24%-98%	cannot dim	10%-100%	17%-99%	15%-100%	16%-99%	17%-99%	18%-99%	16%-99%	15%-100%	16%-99%	17%-99%	18%-100%	20%-100%	17%-99%	13%-99%	14%-99%	14%-100%	14%-99%	14%-100%	16%-99%	13%-98%	14%-99%	15%-99%	17%-99%	27%-99%
	Gira	IT76	50 - 420W	TE	18%-99%	cannot dim	17%-99%	16%-99%	17%-99%	15%-99%	16%-99%	16%-99%	15%-99%	16%-99%	17%-99%	14%-100%	16%-99%	19%-100%	18%-99%	14%-100%	15%-99%	15%-99%	16%-99%	16%-99%	13%-98%	14%-99%	15%-99%	14%-98%	16%-100%	18%-100%
	Merten (Schneider)	5771	20 - 315W	TE	41%-99%	cannot dim	35%-100%	37%-99%	29%-99%	28%-100%	27%-99%	24%-99%	21%-98%	20%-99%	21%-98%	20%-99%	21%-99%	23%-99%	21%-99%	18%-99%	19%-99%	19%-99%	16%-99%	15%-99%	14%-98%	14%-99%	13%-98%	16%-99%	26%-99%	26%-99%
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	LE	flicker	cannot dim	12%-99%	14%-99%	14%-99%	14%-98%	14%-99%	2%-99%	2%-100%	3%-99%	4%-99%	2%-100%	3%-99%	flicker	flicker	4%-99%	5%-99%	3%-99%	4%-99%	4%-99%	4%-99%	4%-99%	2%-99%	2%-99%	5%-99%	5%-99%
	Insta Group (Berker)	283010	60 - 400W	LE	flicker	cannot dim	12%-100%	11%-100%	11%-99%	12%-100%	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%-99%	3%-98%	3%-99%	3%-98%	4%-99%	4%-100%
	Insta Group (Berker/ Insta)	286701/SI90	60 - 360W	LE	79%-99%	cannot dim	14%-99%	12%-99%	12%-99%	12%-100%	11%-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%-99%	4%-98%	3%-99%	3%-99%	3%-99%	6%-100%	6%-100%
	Legrand	067081	40 - 300W	LE	flicker	cannot dim	10%-100%	10%-99%	flicker	9%-99%	11%-99%	flicker	8%-99%	5%-99%	flicker	5%-99%	5%-99%	flicker	flicker	flicker	flicker	flicker	flicker	flicker	4%-99%	3%-99%	flicker	5%-100%	4%-100%	flicker
	Legrand	067082	40 - 600W	LE	flicker	cannot dim	14%-99%	13%-99%	flicker	10%-99%	flicker	8%-99%	4%-98%	flicker	4%-98%	flicker	5%-99%	flicker	flicker	flicker	flicker	flicker	flicker	flicker	3%-99%	2%-99%	flicker	4%-99%	3%-99%	flicker
	Legrand	067084	40 - 300W	LE	flicker	cannot 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	flicker
	Legrand (Bticino)	14407	60 - 750W	LE	flicker	cannot dim	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Schneider Electric	315GLE	20 - 315W	TE	flicker	cannot dim	12%-99%	11%-99%	11%-99%	12%-100%	11%-98%	flicker	3%-99%	4%-98%	flicker	5%-99%	3%-99%	7%-100%	6%-99%	6%-99%	8%-99%	9%-99%	7%-99%	7%-99%	6%-99%	6%-99%	6%-98%	3%-99%	3%-98%	6%-98%
Vimar	14153		TE	7%-99%	cannot dim	10%-99%	12%-99%	12%-99%	12%-98%	12%-99%	3%-99%	2%-99%	3%-100%	2%-99%	3%-99%	4%-98%	3%-99%	4%-99%	4%-99%	4%-99%	6%-99%	7%-100%	5%-99%	4%-99%	5%-99%	4%-99%	4%-99%	4%-99%	4%-99%	4%-99%

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



Professional LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

x-y	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.
N.A	Transformer lamp combination not applicable/relevant
T.B.D	Transformer lamp combination not tested

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

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

Brand	Model	Watt
Bosch 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		OSRAM			
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	Y150	Y170	HTM 70	HTM 105	HTM 150	Tridonic
Wattage	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
Mode	TE	TE	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											
LE											
TE											



**Master LEDspot LV MR16
8-35W**

Brand	Model	Watt
Bosch 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		OSRAM			
Model	Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	Y150	Y170	HTM 70	HTM 105	HTM 150	VAPER
Wattage	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
Mode	TE	TE	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											
LE											
TE											



Professional LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

x-y	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.
N.A	Transformer lamp combination not applicable/relevant
T.B.D	Transformer lamp combination not tested

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Master LEDspot Value MR16
5.5-35W D

Master LEDspot Value MR16
7-50W D

Brand	Model	Watt
Bosch Jaeger	6513 U-102	40 ~ 420W
Gira	1176	50 ~ 420W
Merten (Schneider)	5771	20 ~ 315W
Doyle & Tratt (Varilight)	HQ3W	60 ~ 400W
Insta Group (Berker / Insta)	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 105	Primaline 150	YT50	YCE 6/23-E	HTM 105	HTM 150	VIPER	
Wattage	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	
Mode	TE	TE	TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE	LE & TE
TE	50%-90%	50%-90%	60%-90%	50%-90%	50%-90%	40%-90%	40%-90%	40%-90%	40%-90%	40%-90%	40%-90%
UNI	cannot startup	60%-90%	flicker	50%-90%	50%-90%	40%-90%	20%-90%	10%-90%	30%-90%	40%-90%	40%-90%
TE	40%-90%	60%-90%	40%-90%	60%-90%	30%-90%	40%-90%	40%-90%	40%-90%	40%-90%	40%-90%	40%-90%
LE	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%	10%-90%	flicker	20%-90%	20%-90%	20%-90%	20%-90%
LE	flicker	30%-90%	20%-90%	20%-90%	20%-90%	20%-90%	flicker	10%-90%	10%-90%	10%-90%	10%-90%
LE	30%-90%	40%-90%	20%-90%	30%-90%	30%-90%	30%-90%	20%-90%	10%-90%	10%-90%	10%-90%	10%-90%
LE	flicker	30%-90%	20%-90%	20%-90%	20%-90%	20%-90%	20%-90%	10%-90%	10%-90%	10%-90%	10%-90%
LE	flicker	30%-90%	20%-90%	20%-90%	30%-90%	20%-90%	flicker	flicker	20%-90%	10%-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	cannot dim	70%-90%	40%-90%	70%-90%	70%-90%	70%-90%	40%-90%	40%-90%	40%-90%	40%-90%	40%-90%



Master LEDspot Value LV
MR16
6.3-35W

Brand	Model	Watt
Bosch Jaeger	6513 U-102	40 ~ 420W
Gira	1176	50 ~ 420W
Merten (Schneider)	5771	20 ~ 315W
Doyle & Tratt (Varilight)	HQ3W	60 ~ 400W
Insta Group (Berker / Insta)	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								Tidonic		
Model	Certaline 60		Certaline 105		Certaline 150				Primaline 105			Primaline 150			YT50	YT70Z		HTM 70		HTM 105			HTM 150		VIPER		
Wattage	20 ~ 60W		35 ~ 105W		50 ~ 150W				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	3 lamps	2 lamps	3 lamps	4 lamps	1 lamp	1 lamp	2 lamps	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			
TE	flicker	40%-90%	50%-99%	52%-99%	50%-99%	N.A	N.A	N.A	40%-90%	40%-90%	40%-90%	30%-90%	30%-90%	30%-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	can't start up	20%-90%	20%-90%	30%-90%	30%-90%	30%-90%	40%-90%	40%-90%	40%-90%	37%-99%	37%-99%	38%-99%	38%-99%	38%-99%	38%-99%	38%-99%	38%-99%		
TE	50%-99%	50%-99%	41%-94%	40%-95%	38%-96%	N.A	N.A	N.A	40%-95%	40%-95%	40%-95%	19%-98%	19%-98%	19%-98%	40%-100%	35%-99%	35%-99%	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	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	5%-95%	flicker	15%-90%	flicker	15%-90%	15%-90%	15%-90%	15%-90%	5%-95%	5%-95%	
LE	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	flicker	5%-95%	5%-95%	10%-90%	10%-90%	10%-90%	flicker	10%-90%	10%-90%	flicker	10%-90%	40%-81%	40%-81%	40%-81%	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	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%	20%-90%	10%-90%	10%-90%	24%-96%	24%-96%	
LE	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	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	5%-95%				flicker	flicker	5%-95%	flicker	5%-95%	flicker	5%-95%	5%-95%	5%-95%	5%-95%	flicker	5%-95%	
TE	can't start up	N.A	cannot dim	N.A	N.A	N.A	N.A	N.A	flicker	N.A	N.A				flicker	N.A	N.A	flicker	N.A	flicker	N.A	N.A	50%-100%	N.A	flicker	N.A	
TE	flicker	5%-65%	flicker	5%-93%	5%-95%	N.A	N.A	N.A	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%	20%-85%	20%-85%	20%-85%	16%-100%	16%-100%	



Professional LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list – LED Lamps



KEY

x-y	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.
N.A	Transformer lamp combination not applicable/relevant
T.B.D	Transformer lamp combination not tested

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				Transformer											
				Brand	Philips					Varilight		ELT	OSRAM		
				Model	Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 70	HTM 105	HTM 150
				Wattage	20 - 60W	35 - 105W	50 - 150W	35 - 105W	50 - 150W	0 - 70W	20 - 70W		20 - 70W	35 - 105W	50 - 150W
				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	LE & TE
Dimmer	Brand	Model	Watt	TE	45%-90%	flicker	50%-90%	flicker	40%-90%	40%-90%	40%-90%	30%-90%	38%-100%	42%-99%	47%-99%
	Busch Jaeger	6513 U-102	40 - 420W	TE	30%-90%	flicker	cannot startup	cannot startup	flicker	30%-90%	30%-90%	30%-90%	flicker	flicker	cannot startup
	Gira	IT16	50 - 420W	TE	40%-70%	40%-70%	50%-70%	flicker	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%	40%-70%
	Merien (Schneider)	5771	20 - 315W	LE	30%-90%	40% flicker	30%-90%	flicker	flicker	30%-90%	30%-90%	flicker	40%-70%	40%-70%	flicker
	Doyle & Triatt (Varilight)	11Q3W	60 - 400W	LE	20%-90%	flicker	20%-90%	flicker	flicker	20%-90%	20%-90%	flicker	10%-90%	10%-90%	cannot startup
	Insta Group (Berker / Insta)	283010	60 - 400W	LE	50%-90%	50%-90%	50%-90%	flicker	50%-90%	50%-90%	50%-90%	flicker	20%-90%	20%-90%	flicker
	Legrand	67081	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	cannot dim	cannot dim	flicker	flicker	flicker	30%-90%	30%-90%	N.A.	20%-90%	20%-90%	flicker
	Legrand (Bicino)	14407	60 - 750W	LE	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Schneider Electric	315GLE	20 - 315W	TE	flicker	flicker	flicker	flicker	40%-70%	40%-70%	40%-70%	N.A.	40%-70%	40%-70%	flicker

Notes:
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 therefor 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

Y-Y	Transformer is compatible with x - y lamp	This document is for information purposes and must be treated as recommendation Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions
Y	Transformer is compatible but will not work according Philips claimed specifications under all conditions	
N	Transformer is not compatible and therefore will not comply to Philips claimed specifications.	
N.A	Transformer lamp combination not applicable/relevant	
T.B.D	Transformer lamp combination not tested	

			LED spots									
			Master ExpertColor MR16 D 6.5-35W D 7.5-43W	Master MR16 GU5.3 6.5-35W DimTime	Master MR16 GU5.3 6.5-35W / 7-35W D CRO	Master MR16 GU5.3 8-50W D	Master MR16 GU5.3 8-50W D	Master MR16 GU5.3 5-35W DimTime	Master Value MR16 GU5.3 3.4-20W D	Master Value MR16 GU5.3 6.3-35W D	Master Value MR16 GU5.3 7-50W D	Master Value MR16 5.5-35W D
							NEW	NEW			NEW	
Transformer 50-70W	Brand / type	Watt										
	OSRAM Halotronic HTM 70 (new type)	20-70	1	1-2	1-2	1	1	1-2	1-3	1-2	1	1
	Philips Certaline 60	20-60	1	2	1	1	1	1-2	1-3	1-2	1	1
	SEET STE 70WA 7429	20-70	1	1-2	1-2	1	1	1-2	1-3	1-2	1	1
	TRIDONIC SPEEDY TE-0050 C101	20-50	1	1	1	1	1	1-2	1-3	2	1	1
	TCI PKCO WOLF 60	10-60		1-2				2	2+3			
	Vossloh Schwaib EST 60/12.635	10-60	1	1-2	1	1	1	1-2	2+3	2	1	1
	RELCO ICE60 PPS 1H 60W	10-60	1	1-2	1-2	1	1	1	1-3	1-2	1	1
	RELCO MINI ICE RNI650 70W	20-70		2	1-2	1			1-3	2	1	1
	Varilight YT50L	0-50	1	1-2	1	1	1	1-2	1-2	1-2	1	1
	Varilight YT70L	0-70	1	1-2	1-2	1	1	1-2	1-3	1-2	1	1
	TRIDONIC SPEEDY TE-0070	20-70	1	1-2	1-2	1	1	2	1-3	2	1	1
	Vossloh Schwaib EST 70/12.360	20-70	1	1-2	1-2	1	1	2	1-3	1-2	1	1
	Radiant XED60/03	20-60	1		1	1	1	1-2	1-2	1-2	1	1
	OSRAM ET-P 60	20-60	1	1	1	1	1				1	1
Transformer 100W	Philips Primaline 105	35-105	1-2	1-3	1-3	1-2	1-2	2+4	2-5	1-3	1-2	1-2
	OSRAM Halotronic HTM 105	35-105	1-2	2+3	1-3	1-2	1-2	2+4	2-5	1-3	1-2	1-2
	Philips Certaline 105	35-105	1-2	2+3	1-3	1-2	1-2	3+4	2-5	1-3	1-2	1-2
	Tridonic speedy TE-0105 C101	35-105	2	2+3	2+3	2	2	3+4	2-5	2+3	2	2
	RELCO ICE 105 PPS 1H	20-105	2	2+3	1-3		2	3+4	2-5	1-3	1-2	1-2
	Vossloh Schwaib EST 105	20-105	1-2	1-3	1-3	1-2	1-2	2+4	2-5	1-3	1-2	1-2
	Varilight YT105L	0-105	1-2	1-3	1-3	1-2	1-2	1+4	1-5	1-3	1-2	1-2
	BLI lighting UK 4106.00 105W	35-105	2	2+3	1-3	1-2	2	2+4	2-5	2+3	2	2
	TCI Pico Wolf 105	20-105	1-2	2+3	1-3	1-2	1-2	1+4	1-5	1-3	1-2	1-2
	GRBA tronic trafo	20-105	2	2+3	2+3	1-2		1+4	1-5	2+3	1-2	1-2
Transformer 150-160W	Philips Primaline 150	50-150	1-3	2+4	2+4	1+3	1-3	2+6	3+8	2+4	1+3	1+3
	Philips certaline 150	50-150	1-3	2+4	2+4	1+3	1-3	3+6	3+8	2+4	1+3	1+3
	Reko ICE 150	50-150	3	3+4	2+4	3	2+3	3+6	3+8	3+4	1+3	1+3
	Reko ICE 160 PPS 1H	100-160		3+5	3+4	3		4+6	6+8	4+5	3	3
	TCI (DIAG) T150 (WX150)	30-150	2+3	2+4	2+4	2+3	2+3	4+6	2+8	2+4	1+3	1+3
	OSRAM HTM 150	50-150	2+3	2+4	2+4	2+3	1+3	2+6	3+8	2+4	2+3	2+3
	SEET HA-150 code 7431	50-150	1+3	2+4	2+4	1+3	1+3	2+6	3+8	2+4	1+3	1+3
	Varilight YT150	0-150	1+3	1+4	1+4	1+3	1+3	1+6	1+8	2+4	1+3	1+3
Transformer 210-250W	RELCO ICE 200 PPS TH	100-200	4	4+7	3+5	2+4	4	4+8	6+10	4+6	3+4	3+4
	SEET HA 210 code 7432	50-210	2+4	2+6	2+6	2+4	2+4	4+8	3+10	3+6	1+4	1+4
	TCI W210	50-210	2+4	3+6	3+6	2+4	2+4	4+8	3+10	3+6	3+4	3+4
	RELCO ICE 250 PPS TH	100-250	4+5		3+7		3+5			6	3+4	3+4
	VARILIGHT YT 250	0-250	1+5	3+7	1+7	1+5	1+5	1+8	1+10	1+7	1+5	1+5
	TCI W250	50-250	2+5	4+7	3+7	2+5	2+5	4+8	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.
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Disclaimer:
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Professional LED Low Voltage range

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



KEY

Y-Y	Transformer is compatible with x - y lamp	This document is for information purposes and must be treated as recommendation Philips attempted to provide best results, results are generated in lab controlled environment and may differ from actual application conditions
	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.	
N.A.	Transformer lamp combination not applicable/relevant	
T.B.D.	Transformer lamp combination not tested	

			LED spots								LED capsule	
			Master Value MR16 7-50W D	Master AR111 GU5.3 11-50W D	Master AR111 GU5.3 15-75W D	Master AR111 GU5.3 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 6-50W ND	Corepro G4 1.2-10W ND	Corepro G4 2-20W ND
							NEW	NEW	NEW	NEW		
Transformer 50-70W	Brand / type	Watt										
	OSRAM Halotronic HTM 70 (new type)	20-70	1	1	1	N.A.	1-3	1-3	1-2	1	4-10	2-7
	Philips Certaline 60	20-60	1	1	N.A.	N.A.	1-3	1-3	1-2	1	2-6	2-6
	SEET STE 70WA 7429	20-70	1	1	1	N.A.	1-3	1-3	1-2	1	4-10	2-7
	TRIDONIC SPEEDY TE-0050 CIOI	20-50	1	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	1	N.A.	N.A.	1-3	1-3	1-2			
	RELCO ICE60 PPS 1H 60W	10-60	1	1	N.A.	N.A.	1-3	1-3	1-2	1	2-10	1-6
	RELCO MINI ICE RNI650 70W	20-70	1	1	1	N.A.	1-3					2-7
	Varilight YT50L	0-50	1	1	N.A.	N.A.	1-2	1-2	1	1	1-8	3-5
	Varilight YT70L	0-70	1	1	1	N.A.	1-3	1-3	1-2	1	1-10	2-5
	TRIDONIC SPEEDY TE-0070	20-70	1	1		N.A.	2-3					
Transformer 100W	Vossloh Schwabe EST 70/12.380	20-70	1	1	1	N.A.	1-3	1-3	1-2	1		2-7
	Radiant XE060/03	20-60	1	1	N.A.	N.A.	1	1-2	1	1	4-8	4-6
	OSRAM ET-P 60	20-60	1	1	N.A.	N.A.	2-3	1-3	1	1		
	Philips Primaline 105	35-105	1-2	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	OSRAM Halotronic HTM 105	35-105	1-2	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	Philips Certaline 105	35-105	1-2	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	Tridonic speedy TE-0105 CIOI	35-105	2	2			2-5	2-5	1-3	2		
	RELCO ICE 105 PPS 1H	20-105	1-2	1-2	1	1	2-5		1-3			
	Vossloh Schwabe EST 105	20-105	1-2	1-2	1	1	2-5	1-5	1-3	1-2	4-10	2-10
	Varilight YT105L	0-105	1-2	1-2	1	1	2-5	1-5	1-3	1-2	1-10	2-10
	BLI lighting UK 4105.00 105W	35-105	2	1-2	1	1	2-5	2-5	1-3	1-2	6-10	4-10
	TCI Pico Wolf 105	20-105	1-2	1-2	1	1	2-5	2-5	1-3	1-2	4-10	2-10
Transformer 150-360W	GBR iconic t160	20-105	1-2	1-2	1	1	2-5		1-3	1-2		2-10
	Philips Primaline 150	50-150	1-3	1-2	1-2	1	3-7	3-7	2-4	1-3	6-10	5-10
	Philips certaline 150	50-150	1-3	1-2	1-2	1	3-7	3-7	2-4	2-3	6-10	
	Reko ICE 150	50-150	1-3	1-2	2		3-7	3-7	2-4		6-10	5-10
	Reko ICE 160 PPS 1H	100-160	3	1-2	2		3-7					
	TCI (DIAG) T150 (WX150)	30-150	1-3	1-2	1-2	1	2-7	2-7	1-4	2-3	5-10	5-10
	OSRAM HTM 150	30-150	2-3	1-2	1-2	1	3-7	3-7	3-4	1-3	3-10	
	SEET HA-150 code 7431	30-150	1-3	1-3	1-2	1	3-7	4-7	2-4		3-10	6-10
	Varilight YT150	0-150	1-3	1-3	1-2	1	1-7	1-7	1-4	1-3	1-10	1-10
	RELCO ICE 200 PPS 1H	100-200	3-4	2-4	2	2	5-10					
	SEET HA 210 code 7432	50-210	1-4	1-4	2	1-2	3-10				9-10	
	TCI W210	50-210	3-4	2-4	2	1-2	3-10	5-10	2-6			
Transformer 210-250W	RELCO ICE 250 PPS 1H	100-250	3-4	3-5			5-10					
	VARILIGHT YT 250	0-250	1-5	1-5	1-3	1-2	1-10	1-10	1-7	1-5	5-10	1-10
	TCI W250	50-250	2-5	2-5	2-3	1-2	3-10	3-10	2-7			

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