


# Professional LED Low Voltage range



## Recommended Low Voltage dimmer list


### 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




Master LEDspot AR111 GU53 11-50 W

		TRANSFORMER																			
		Philips						Varilight		OSRAM						Tridonic					
Brand	Model	Certaline 60 20 - 60 W	Certaline 105 35 - 105 W		Certaline 150 50 - 150 W		Primaline 70 20 - 70 W	Primaline 105 35 - 105 W		Primaline 150 50 - 150 W		YT50 0 - 50 W	YT70 0 - 70 W	HTM 70 20 - 70 W	HTM 105 35 - 105 W		HTM 150 50 - 150 W		VIPER 20 - 60 W		
		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		
		TE		TE		TE		LE & TE		LE & TE		LE & TE		LE & TE		LE & TE		LE & TE			
		pass		pass		pass		pass		pass		pass		pass		pass		pass			
		Without dimmer																			
Dimmer	Brand	Model																			
	Busch Jaeger	6513 U-102	40 - 420 W	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%		32% - 99%	33% - 99%	29% - 99%	28% - 99%
	Gira	1176	50 - 420 W	UNI										28% - 99%	26% - 99%		18% - 99%	19% - 99%			
	Merten (Schneider)	5771	20 - 315 W	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%
	Insta Group (Berker)	283010	60 - 400 W	LE	N.A.	N.A.	N.A.	N.A.	N.A.					19% - 99%			9% - 99%	10% - 99%			
	Insta Group (Berker/ Insta)	286710/51190	20 - 360 W	LE	N.A.	N.A.	N.A.	N.A.	31% - 99%	29% - 99%	31% - 99%	29% - 99%	28% - 100%	24% - 99%	19% - 99%		10% - 99%	9% - 99%	15% - 99%	17% - 99%	
	Schneider Electric	315GLE	20 - 315 W	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%		9% - 99%	8% - 99%	18% - 99%	



Master LEDspot AR111 GU53 15-75 W

		TRANSFORMER																		
		Philips						Varilight		OSRAM						Tridonic				
Brand	Model	Certaline 60 20 - 60 W	Certaline 105 35 - 105 W		Certaline 150 50 - 150 W		Primaline 70 20 - 70 W	Primaline 105 35 - 105 W		Primaline 150 50 - 150 W		YT50 0 - 50 W	YT70 0 - 70 W	HTM 70 20 - 70 W	HTM 105 35 - 105 W		HTM 150 50 - 150 W		VIPER 20 - 60 W	
		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	
		TE		TE		TE		LE & TE		LE & TE		LE & TE		LE & TE		LE & TE		LE & TE		
		N.A.		pass		pass		pass		pass		N.A.		pass		pass		pass		
		Without dimmer																		
Dimmer	Brand	Model																		
	Busch Jaeger	6513 U-102	40 - 420 W	TE	N.A.	35% - 99%	N.A.	38% - 99%	41% - 99%	flicker	N.A.		N.A.	41% - 99%			N.A.	39% - 99%		41% - 99%
	Gira	1176	50 - 420 W	UNI			N.A.						N.A.	34% - 99%	29% - 99%	33% - 99%	N.A.			38% - 100%
	Merten (Schneider)	5771	20 - 315 W	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%
	Insta Group (Berker)	283010	60 - 400 W	LE	N.A.	N.A.	N.A.	N.A.	N.A.				N.A.	31% - 100%		6% - 100%	N.A.			10% - 99%
	Insta Group (Berker/ Insta)	286710/51190	20 - 360 W	LE	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%
	Schneider Electric	315GLE	20 - 315 W	TE	N.A.		N.A.	41% - 100%	37% - 99%			N.A.	55% - 99%		N.A.	46% - 99%	44% - 99%	47% - 99%	N.A.	46% - 100%



Master LEDspot AR111 GU53 20-100 W

		TRANSFORMER																		
		Philips						Varilight		OSRAM						Tridonic				
Brand	Model	Certaline 60 20 - 60 W	Certaline 105 35 - 105 W		Certaline 150 50 - 150 W		Primaline 70 20 - 70 W	Primaline 105 35 - 105 W		Primaline 150 50 - 150 W		YT50 0 - 50 W	YT70 0 - 70 W	HTM 70 20 - 70 W	HTM 105 35 - 105 W		HTM 150 50 - 150 W		VIPER 20 - 60 W	
		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	
		TE		TE		TE		LE & TE		LE & TE		LE & TE		LE & TE		LE & TE		LE & TE		
		N.A.		pass		pass		pass		pass		N.A.		N.A.		pass		N.A.		
		Without dimmer																		
Dimmer	Brand	Model																		
	Busch Jaeger	6513 U-102	40 - 420 W	TE	N.A.	32% - 99%	N.A.		N.A.			N.A.		N.A.			N.A.	37% - 99%	N.A.	N.A.
	Gira	1176	50 - 420 W	UNI			N.A.							N.A.		32% - 99%	N.A.			N.A.
	Merten (Schneider)	5771	20 - 315 W	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.
	Insta Group (Berker)	283010	60 - 400 W	LE	N.A.	N.A.	N.A.	N.A.	N.A.					N.A.		6% - 99%	N.A.			N.A.
	Insta Group (Berker/ Insta)	286710/51190	20 - 360 W	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.
	Schneider Electric	315GLE	20 - 315 W	TE	N.A.		N.A.	39% - 100%	N.A.			N.A.	53% - 99%	N.A.	N.A.	N.A.	43% - 99%	N.A.		N.A.

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.

**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



Master LEDspot LV MR16  
6.5 W (35 W) DimTone

		TRANSFORMER																									
		Philips												Variilight				OSRAM					Tridonic				
Brand	Model	Certaline 60			Certaline 105			Certaline 150			Primaline 70			Primaline 105			YT50		YT70	HTM 70	HTM 105			HTM 150			VIPER
		20 - 60 W	35 - 105 W		50 - 150 W		20 - 70 W			35 - 105 W		50 - 150 W			0 - 50 W	0 - 70 W	20 - 70 W	35 - 105 W			50 - 150 W			20 - 60 W			
		1 lamp	1 lamp	2 lamps	3 lamps	1 lamp	2 lamps	3 lamps	1 lamp	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		
		TE			TE			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	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass
		Without dimmer																									
Dimmer	Brand	Model	Power	Mode	24%-98%	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%
	Busch Jaeger	6513 U-102	40 - 420 W	TE																							
	Gira	1176	50 - 420 W	UNI																							
	Merten (Schneider)	5771	20 - 315 W	TE																							
	Doyle & Tratt (Varilight)	HQ3W	60 - 400 W	LE																							
	Insta Group (Berker)	283010	60 - 400 W	LE																							
	Insta Group (Berker/Insta)	286710/51190	20 - 360 W	LE																							
	Legrand	067081	40 - 300 W	LE																							
	Legrand	067082	40 - 600 W	LE																							
	Legrand	067084	40 - 300 W	LE																							
	Legrand (Bticino)	L4407	60 - 250 W	LE																							
	Schneider Electric	315GLE	20 - 315 W	TE																							
Vimar	14153																										



Master LEDspot LV MR16  
7 W (35 W) DimTone

		TRANSFORMER																									
		Philips						Variilight		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														
		20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W	20 - 60 W														
		1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp	1 lamp														
		TE		TE		TE		LE & TE		LE & TE		LE & TE															
		pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass	pass														
		Without dimmer																									
Dimmer	Brand	Model	Power	Mode	24%-98%	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%
	Busch Jaeger	6513 U-102	40 - 420 W	TE																							
	Gira	1176	50 - 420 W	UNI																							
	Merten (Schneider)	5771	20 - 315 W	TE																							
	Doyle & Tratt (Varilight)	HQ3W	60 - 400 W	LE																							
	Insta Group (Berker)	283010	60 - 400 W	LE																							
	Insta Group (Berker/Insta)	286710/51190	20 - 360 W	LE																							
	Legrand	067081	40 - 300 W	LE																							
	Legrand	067082	40 - 600 W	LE																							
	Legrand	067084	40 - 300 W	LE																							
	Legrand (Bticino)	L4407	60 - 250 W	LE																							
	Schneider Electric	315GLE	20 - 315 W	TE																							

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.

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



Master LEDspot LV MR16  
8 W (50 W)

				TRANSFORMER													
				Philips						Varilight			OSRAM			Tridonic	
Brand	Model	Power	Mode	Certaline 60 20 - 60 W 1 lamp	Certaline 105 20 - 60 W 1 lamp	Certaline 150 20 - 60 W 1 lamp	Primaline 70 20 - 60 W 1 lamp	Primaline 105 20 - 60 W 1 lamp	Primaline 150 20 - 60 W 1 lamp	YT50 20 - 60 W 1 lamp	YT70 20 - 60 W 1 lamp	HTM 70 20 - 60 W 1 lamp	HTM 105 20 - 60 W 1 lamp	HTM 150 20 - 60 W 1 lamp	VIPER 20 - 60 W 1 lamp		
				TE	TE	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 - 420 W	TE													
	Gira	1176	50 - 420 W	UNI													
	Merten (Schneider)	5771	20 - 315 W	TE													
	Doyle & Tratt (Varilight)	HQ3W	60 - 400 W	LE													
	Insta Group (Berker)	283010	60 - 400 W	LE													
	Insta Group (Berker/Insta)	286710/51190	20 - 360 W	LE													
	Legrand	067081	40 - 300 W	LE													
	Legrand	067082	40 - 600 W	LE													
	Legrand	067084	40 - 300 W	LE													
	Legrand (Bticino)	L4407	60 - 250 W	LE													
Schneider Electric	315GLE	20 - 315 W	TE														



Master Value LEDspot LV MR16  
6.3 W (35 W)

				TRANSFORMER																												
				Philips												Varilight			OSRAM						Tridonic							
Brand	Model	Power	Mode	Certaline 60 20 - 60 W 1 lamp 2 lamps		Certaline 105 35 - 105 W 1 lamp 2 lamps 3 lamps			Certaline 150 50 - 150 W 2 lamps 3 lamps 4 lamps			Primaline 70 20 - 70 W 1 lamp 2 lamps		Primaline 105 35 - 105 W 1 lamp 2 lamps 3 lamps			Primaline 150 50 - 150 W 2 lamps 3 lamps 4 lamps			YT50 0 - 50 W 1 lamp	YT70Z 0 - 70 W 1 lamp 2 lamps		HTM 70 20 - 70 W 1 lamp 2 lamps		HTM 105 35 - 105 W 1 lamp 2 lamps 3 lamps			HTM 150 50 - 150 W 2 lamps 3 lamps 4 lamps			VIPER 20 - 60 W 1 lamp 2 lamps	
				TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	TE	
				Pass	Pass	Pass	Pass	N.A.	N.A.	N.A.	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Dimmer	Busch Jaeger	6513 U-102	40 - 420 W	TE																												
	Gira	1176	50 - 420 W	UNI																												
	Merten (Schneider)	5771	20 - 315 W	TE																												
	Doyle & Tratt (Varilight)	HQ3W	60 - 400 W	LE																												
	Insta Group (Berker)	283010	60 - 400 W	LE																												
	Insta Group (Berker/Insta)	286710/51190	20 - 360 W	LE																												
	Legrand	067081	40 - 300 W	LE																												
	Legrand	067082	40 - 600 W	LE																												
	Legrand (Bticino)	L4407	60 - 250 W	LE																												
	Schneider Electric	315GLE	20 - 315 W	TE																												

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.

