



PHILIPS

Transformer and
dimmer list
Consumer Q3 2018



Table of content

Consumer LED Low Voltage range

- Recommended transformer compatibility list for Low Voltage lamps - LED Lamps
For Non-dimmable systems only 2
- Recommended Low Voltage Dimmer compatibility list - LED Lamps 3
- Recommended Low Voltage Dimmer compatibility list - LED Lamps 4
- Recommended Low Voltage Dimmer compatibility list - LED Lamps 5

Consumer LED Low Voltage range



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

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

This document is for information purposes and must be treated as recommendation. Philips attempted to provide best results, results are generated in lab conditions and might contain faults



Brand / type	Watt	LEDspots								LEDcapsule			
		LED 35W MR16 WarmGlow DIM	LED 35W MR16 WarmGlow DIM	LED 35W MR16 DIM	LED 50W MR16 DIM	LED 20W MR16 non DIM	LEDClassic 20W MR16 non DIM	LEDClassic 35W MR16 non DIM	LED 20W MR11 non DIM	LED 35W MR16 non DIM	LED 10W G4 non DIM	LED 20W G4 non DIM	
Transformer 50-70W	OSRAM Halotronic HTM 70 (new type)	20-70	1-2	1-2	1-2	1-2	1-3	1-3	1-2	1-3	1-2	4-11	2-7
	Philips Certaline 60	20-60	2	1-2	1-2	1-2	1-3	1-3	1-2	1-3	1-2	2-10	2-6
	SEET STE 70VA 7429	20-70	1-2	1-2	1-2	1-2	1-3	1-3	1-2	1-3	1-2	4-11	2-7
	TRIDONIC SPEEDY TE-0050 C101	20-50	1	1-2	2	2	1-3			1-2	1-2		
	TCI PICO WOLF 60	10-60	1-2	2			2-3			2-3			
	Vossloh Schwabe EST 60/12.635	10-60	1-2	1-2	2	2	2-3			1-3	1-2		
	RELCO ICE60 PFS TH 60W	10-60	1-2	1	1-2	1-2	1-3	1-3	1-2	1-3	1-2	2-10	1-6
	RELCO MINI ICE RN1650 70W	20-70	2		2	2	1-3		1	1-3	1-2		2-7
	Varilight YT50L	0-50	1-2	1-2	1-2	1-2	1-2	1-3	1-2	1-2	1	1-8	3-5
	Varilight YT70L	0-70	1-2	1-2	1-2	1-2	1-3	1-3	1-2	1-3	1-2	1-11	2-5
	TRIDONIC SPEEDY TE-0070	20-70	1-2	2	2	2	1-3			2-3	2		
	Vossloh Schwabe EST 70/12.380	20-70	1-2	2	1-2	1-2	1-3	1-2	1-2	1-3	1-2		2-7
	Radiant XE060/03	20-50		1-2	1-2	1-2	1-2	1-2		1	1-2	4-8	4-6
OSRAM ET-P 60	20-60	1					1-3	1-2	2-3				
Transformer 105W	Philips Primaline 105	35-105	1-3	2-4	1-3	1-3	2-5	2-5	1-3	2-5	1-3	6-17	4-10
	OSRAM Halotronic HTM 105	35-105	2-3	2-4	1-3	1-3	2-5	2-5	1-3	2-5	1-3	6-17	4-10
	Philips Certaline 105	35-105	2-3	3-4	1-3	1-3	2-5	2-5	1-3	2-5	1-3	6-17	4-10
	Tridonic speedy TE-0105 C101	35-105	2-3	3-4	2-3	2-3	2-5			2-5	3		
	RELCO ICE 105 PFS TH	20-105	2-3	3-4	1-3	1-3	2-5			2-5	1-3		
	Vossloh Schwabe EST 105	20-105	1-3	2-4	1-3	1-3	2-5	1-5	1-3	2-5	2-3	4-17	2-10
	Varilight YTI05L	0-105	1-3	1-4	1-3	1-3	1-5	1-5	1-3	2-5	1-3	1-17	2-10
	IBL lighting UK 4106.00 105W	35-105	2-3	2-4	2-3	2-3	2-5	2-5	1-3	2-5	1-3	6-17	4-10
	TCI Pico Wolf 105	20-105	2-3	1-4	1-3	1-3	1-5		1-3	2-5	1-3	4-17	2-10
GIRA tronic trafo	20-105	2-3	1-4	2-3	2-3	1-5		1-3	2-5	1-3		2-10	
Transformer 150-160W	Philips Primaline 150	50-150W	2-4	2-6	2-4	2-4	3-8	3-7	2-4	3-7	2-5	9-25	5-15
	Philips certaline 150	50-150W	2-4	3-6	2-4	2-4	3-8	3-7	2-4	3-7	2-5	9-25	
	Relco ICE 150	50-150W	3-4	3-6	3-4	3-4	3-8	3-7	2-4	3-7	2-5	9-25	5-15
	Relco ICE 160 PFS TH	100-160W	3-5	4-6	4-5	4-5	6-8			5-7	4-5		
	TCI (DIAG) T150 (WX150)	30-150W	2-4	4-6	2-4	2-4	2-8	2-7	1-4	2-7	2-5	5-25	5-15
	OSRAM HTM 150	50-150W	2-4	2-6	2-4	2-4	3-8	3-7	2-4	3-7	2-5	9-25	
	SEET HA-150 code 7431	50-150W	2-4	2-6	2-4	2-4	3-8	3-7	2	3-7	2-5	9-25	6-15
	Varilight YT150	0-150W	1-4	1-6	2-4	2-4	1-8	1-7	1-4	1-7	1-5	1-25	1-15
Transformer 210-250W	RELCO ICE 200 PFS TH	100-200	4-7	4-8	4-6	4-6	6-10			5-10	3-7		
	SEET HA 210 code 7432	50-210	2-6	4-8	3-6	3-6	3-10			3-10	2-7	9-35	
	TCI W210	50-210	3-6	4-8	3-6	3-6	3-10			3-10	3-7		
	RELCO ICE 250 PFS TH	100-250			6	6				5-10	4-7		
	VARILIGHT YT 250	0-250	3-7	1-8	1-7	1-7	1-10	1-10	1-6	1-10	1-7	5-41	1-25
TCI W250	50-250	4-7	4-8	2-7	2-7	3-10			3-10	3-7			

General 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 in general compatible, however some can give unwanted performance. The lamp will work but Philips can not guarantee electromagnetic compatibility performance (EMC) will be within standards

If your ET 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.

Consumer LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

X - Y a% - b%	Transformer is compatible with x - y lamp The dimrange is from a% - b%
	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
	Transformer lamp combination not tested

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LEDspot 35W GU5.3 WarmGlowDim

Transformer											
Philips					Varilight		OSRAM			Tridonic	
Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	HTM 150	VIPER	

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	

1 24%-98%	2-3 19%-100%	1-4 17%-99%	1-3 18%-99%	1-4 17%-99%	1 20%-100%	1-2 17%-99%	1-2 13%-99%	1-3 16%-99%	1-4 17%-99%	1 21%-99%
1 18%-99%	2-3 17%-99%	1-4 17%-99%	1-3 16%-99%	1-4 17%-99%	1 19%-100%	1-2 18%-99%	1-2 14%-100%	1-3 16%-99%	1-4 15%-99%	1 11%-100%
1 41%-99%	2-3 35%-100%	1-4 29%-99%	1-3 24%-99%	1-4 21%-98%	1 23%-99%	1-2 21%-99%	1-2 18%-99%	1-3 19%-99%	1-4 14%-98%	1 26%-99%
flicker	2-3 14%-99%	1-4 14%-99%	1-3 3%-99%	1-4 4%-99%	flicker	flicker	1-2 4%-99%	1-3 5%-99%	1-4 4%-99%	1 5%-99%
flicker	2-3 12%-100%	1-4 12%-99%	1-3 4%-99%	1-4 4%-99%	1 14%-100%	1-2 16%-99%	1-2 4%-100%	1-3 4%-98%	1-4 3%-99%	1 4%-99%
1 19%-99%	2-3 14%-99%	1-4 12%-99%	1-3 5%-100%	1-4 4%-99%	1 15%-100%	1-2 14%-100%	1-2 5%-99%	1-3 6%-99%	1-4 4%-98%	1 6%-100%
flicker	2-3 11%-100%	2-4 11%-99%	2-3 8%-99%	2-4 5%-99%	flicker	flicker	flicker	2-3 4%-99%	2-4 5%-99%	flicker
flicker	2-3 14%-99%	2-4 11%-100%	2-3 5%-99%	2-4 4%-98%	flicker	flicker	flicker	2-3 3%-99%	2-4 4%-99%	flicker
flicker	flicker	flicker	flicker	flicker	1 10%-100%	1-2 8%-99%	flicker	flicker	flicker	flicker
flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
flicker	2-3 12%-99%	1-4 12%-100%	2-3 4%-98%	2-4 5%-99%	1 7%-100%	1-2 6%-99%	1-2 8%-99%	1-3 9%-99%	1-4 6%-99%	1 6%-98%
1 2%-99%	2-3 12%-99%	1-3 12%-99%	1-3 3%-99%	1-3 4%-98%	1 3%-99%	1 4%-99%	1-2 4%-99%	1-3 6%-99%	1-4 5%-99%	1 4%-99%



LEDspot 35W GU5.3 Dim

Transformer											
Philips					Varilight		OSRAM			Tridonic	
Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	YT50	YT70	HTM 70	HTM 105	HTM 150	VIPER	

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 (Bticino)	L4407	60 - 250W
Schneider Electric	315GLE	20 - 315W

2 40%-90%	1-4 56%-99%	N.A.	1-4 40%-90%	1-6 30%-90%	1-2 40%-90%	1-2 40%-90%	1-2 43%-99%	1-4 42%-99%	1-6 20%-85%	1-2 40%-90%
1-2 42%-99%	1-4 53%-100%	N.A.	1-4 20%-90%	1-6 30%-90%	1-2 40%-90%	1-2 40%-90%	1-2 37%-99%	1-4 36%-99%	1-6 35%-90%	1-2 32%-99%
1-2 59%-99%	1-4 41%-94%	N.A.	1-4 40%-95%	1-6 19%-98%	1-2 40%-100%	1-2 35%-90%	1-2 39%-98%	1-4 40%-99%	1-6 10%-80%	1-2 38%-99%
N.A.	N.A.	N.A.	2-4 5%-90%	1-6 5%-95%	1-2 5%-95%	1-2 5%-95%	2 15%-90%	2-4 15%-80%	1-6 10%-90%	1-2 5%-95%
N.A.	N.A.	N.A.	2-4 5%-95%	1-6 10%-90%	flicker	1-2 10%-90%	2 10%-95%	1-4 40-81%	1-6 10%-90%	1-2 5%-90%
N.A.	N.A.	N.A.	1-4 18%-99%	1-6 19%-99%	1-2 25%-95%	1-2 30%-90%	1-2 28%-99%	1-4 31%-99%	1-6 20%-90%	1-2 24%-98%
N.A.	N.A.	N.A.	3-4 5%-95%	1-6	flicker	flicker	2 5%-95%	2-4 5%-95%	1-6 5%-95%	2 5%-95%
N.A.	N.A.	N.A.	3-4 5%-95%	1-6	flicker	flicker	2 5%-95%	2-4 5%-95%	1-6 5%-95%	2 5%-95%
can't start up	can't dim	N.A.	flicker	1-6	flicker	N.A.	flicker	flicker	flicker	flicker
2 5%-65%	2-4 5%-93%	N.A.	2-4 5%-90%	1-6 10%-90%	1-2 5%-95%	1-2 5%-95%	1-2 5%-95%	1-4 5%-95%	1-6 20%-85%	1-2 1%-100%

Consumer LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

X - Y a% - b%	Transformer is compatible with x - y lamp The dimrange is from a% - b%
	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
	Transformer lamp combination not tested

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LED capsule 20W G4 DIM

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

Dimmer	Brand	Model	Watt	Transformer												
				Certaline 60	Certaline 105	Certaline 150	Primaline 105	Primaline 150	YT50	YT70	TCE 6/23-E	HTM 70	HTM 105	HTM 150	VIPER	
Dimmer	Busch Jaeger	6513 U-102	40 - 420W	1 - 6 45%-90%	flicker	1 - 15 50%-90%	flicker	1 - 15 40%-90%	1 - 7 40%-90%	1 - 7 40%-90%	1 - 6 30%-90%	1 - 7 38%-100%	1 - 10 42%-99%	1 - 15 41%-99%	1 - 6 44%-99%	
	Gira	1176	50 - 420W	1 - 6 30%-90%	flicker	cannot startup	cannot startup	flicker	1 - 7 30%-90%	1 - 7 30%-90%	1 - 6 30%-90%	flicker	flicker	cannot startup	1 - 6 30%-90%	
	Merten (Schneider)	5771	20 - 315W	1 - 6 40%-70%	1 - 10 40%-70%	1 - 15 50%-70%	flicker	1 - 15 40%-70%	1 - 7 40%-70%	1 - 7 40%-70%	1 - 6 40%-70%	1 - 7 40%-70%	1 - 10 40%-70%	1 - 15 40%-70%	1 - 6 40%-70%	
	Doyle & Tratt (Varilight)	HQ3W	60 - 400W	1 - 6 30%-90%	flicker	1 - 15 30%-90%	flicker	flicker	1 - 7 30%-90%	1 - 7 30%-90%	flicker	1 - 7 40%-70%	1 - 10 40%-70%	flicker	flicker	
	Insta Group (Berker)	283010	60 - 400W	1 - 6 20%-90%	flicker	1 - 15 20%-90%	flicker	flicker	1 - 7 20%-90%	1 - 7 20%-90%	flicker	1 - 7 10%-90%	1 - 10 10%-90%	cannot startup	1 - 6 10%-90%	
	Insta Group (Berker/ Insta)	286710/51190	20 - 360W	1 - 6 50%-90%	1 - 10 50%-90%	1 - 15 50%-90%	flicker	1 - 15 50%-90%	1 - 7 50%-90%	1 - 7 50%-90%	flicker	1 - 7 20%-90%	1 - 10 20%-90%	flicker	1 - 6 10%-90%	
	Legrand	067081	40 - 300W	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Legrand	067082	40 - 600W	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
	Legrand	067084	40 - 300W	cannot dim	cannot dim	turn min flicker	flicker	flicker	30%-90%	30%-90%	N.A.	20%-90%	20%-90%	flicker	30%-90%	
	Legrand (Bticino)	L4407	60 - 250W	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker	flicker
Schneider Electric	315GLE	20 - 315W	flicker	flicker	flicker	flicker	1 - 15 40%-70%	40%-70%	40%-70%	N.A.	40%-70%	40%-70%	flicker	40%-70%		

Consumer LED Low Voltage range

Recommended Low Voltage Dimmer compatibility list - LED Lamps



KEY

X - Y a% - b%	Transformer is compatible with x - y lamp The dimrange is from a% - b%
	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
	Transformer lamp combination not tested

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LEDspot 5 - 35W GU5.3 WGD

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

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)	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	

1 >40%	1 >40%	1 >40%	flicker	1 >40%	1 >40%	1 >40%	1 >40%	1	1	1 >50%	1 >40%
1	flicker	1	1	1 >40%	1	1	1	1	1	1	1
1 >50%	1 >50%	1	1 >50%	1 >50%	1 >40%	1 >50%	1	1 >40%	1 >40%	1 >40%	1 >40%
flicker	1										
1	1	1	1	1	1	1	flicker	1	1	1	flicker
1	1	1	1	1	1	1	1	1	1	1	1
flicker	1										
flicker	1										
1	flicker	1	flicker	1	1	1	flicker	1	1	flicker	1
flicker											
1	1	1	1	1	1	1	flicker	1	1	flicker	1



LEDspot 7 - 50W GU5.3

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

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)	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	

1	1	1	1	1	1	1	1	1	1	flicker	1
1	1	1	1	flicker	1	1	1	1	1	flicker	1
1	1	1	1	1	1	1	1	1	1	flicker	1
flicker	1										
1	1	1	1	flicker	1	1	flicker	1	1	flicker	1
1	1	1	1	1	1	1	1	1	1	flicker	1
flicker	1										
flicker	1										
flicker	1	1	flicker	flicker	flicker	flicker	flicker	1	1	flicker	1
flicker											
1	1	1	1	1	1	1	1	1	1	flicker	1

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.



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Data subject to change.