

Table: Recommended Maximum Quantities of Electronic Transformers on specific Clipsal Dimmers.

Electronic Transformer Manufacturer and Model Number		(V.A.) Transformer Output	(nF) Transformer Input Capacitance
Manufacturer	Model		
Actec	Mini60	60	100 nF
Art Electronics	ART-T3560I-E	60	68 nF
Atco	TED070	70	33 nF
Atco	TED105	105	100 nF
Atco Tridonic	Possum	60	33 nF
Belltec	BT60E	60	100 nF
Butterfly Lighting	TUB70	70	220 nF
Dielle Electronic	KT-6023	60	100 nF
Euroelite	WT-60L-75	60	22 nF
Euroelite	WT-105L	105	22 nF
Expo Light	Ex EL60VA	60	100 nF
Fersa Light Technic	HA-60	60	22 nF
Global	GL 60	60	56 nF
Halcyon	Seal 70D	70	47 nF
Halcyon	M170	70	47 nF
Hunza	SP50RIP	50	100 nF
IBL	4211.00	200	150 nF
IBL	4209.00	150	150 nF
IBL	4351.00A	105	100 nF
IBL	4350.00A	60	47 nF
IBL	4610.00A	60	47 nF
IBL	4616.00A	60	47 nF
Knobel	TE-WX105	105	150 nF
Luxman	ETH70	70	100 nF*
Luxman	ETH105	105	100 nF*
Minitronix	E60S	60	47 nF
Nd Light	ET60	60	22 nF
Nelson	Fox 60	60	68 nF
Nelson	Fox 105	105	100 nF
Nelson	Ice 60	60	68 nF
Nelson	Ice 105	105	100 nF
Nelson	Kitty 60	60	150 nF
Nelson	Kitty 105	105	150 nF
Nelson	CONT 70	70	100 nF
Nelson	CONT 105	105	100 nF
Omnitronix	EL60	60	100 nF
Osram	HTB70	70	150 nF
Osram	HTB105	105	150 nF
Osram	HTM70	70	100 nF
Osram	HTM105	105	100 nF
Osram	HTM150	150	100 nF
Pierlite	GD - 32	60	100 nF
Powerun	410-60	60	100 nF
Sunrise	SET 60 LT	60	100 nF
Telbix	Ultra 60	60	100 nF
Telbix	Ultra 105	105	47 nF
Vossloh Shwabe	EST70/12.480	70	150 nF
Vossloh Shwabe	EST105/12.481	105	150 nF
Vossloh Shwabe	EST150/12.412	150	470 nF
Vossloh Shwabe	EST150/12.745	150	220 nF

C-Bus Leading Edge Dimmers							
Part Number	Maximum V.A. Per Channel	OLD		PRO		DIN	
		750	1200	2400	4800	240	480
5104D750 (4 Channels)		3	10	10	10	3	3
L5104D5 (4 Channels)		4	14	14	14	4	4
L5102D10 (2 Channels)		9	17	17	30	3	6
L5101D20 (1 Channel)		3	10	10	10	2	3
L5508D1A # (8 Channels)		9	20	20	30	4	8
L5504D2A (4 Channels)		3	10	10	10	3	3
		NC	NC	NC	NC	NC	NC
		3	10	10	10	3	3
		12	20	20	40	4	8
		7	11	11	22	2	4
		3	10	10	10	3	3
		12	20	20	40	4	8
		5	17	17	17	4	5
		6	17	17	21	3	6
		6	17	17	21	3	6
		3	10	10	10	3	3
		2	6	6	6	1	2
		2	6	6	6	1	2
		3	10	10	10	2	3
		6	20	20	21	4	6
		6	20	20	21	4	6
		6	20	20	21	4	6
		2	6	6	6	2	2
		3	10	10	10	3	3
		3	10	10	10	2	3
		NC	NC	NC	NC	NC	NC
		12	20	20	40	4	8
		4	14	14	14	4	4
		3	10	10	10	2	3
		4	14	14	14	4	4
		3	10	10	10	2	3
		2	6	6	6	2	2
		2	6	6	6	2	2
		3	10	10	10	3	3
		3	10	10	10	2	3
		NC	NC	NC	NC	NC	NC
		NC	NC	NC	NC	NC	NC
		3	10	10	10	3	3
		3	10	10	10	2	3
		3	8	8	10	1	3
		3	10	10	10	3	3
		3	10	10	10	3	3
		3	10	10	10	3	3
		3	10	10	10	3	3
		6	11	11	21	2	4
		2	6	6	6	2	2
		NC	NC	NC	NC	NC	NC
		NC	NC	NC	NC	NC	NC

The Quantity of Electronic transformers listed here are based upon the watts capacity of the actual transformer, not upon the size of the lamp connected to the transformer, as it is impossible for CIS to determine whether the installer is underloading the transformer. ie: 50 watt lamp connected to a 70 watt transformer. When using any electronic transformer it is recommended that the lamp attached to it should be 70% or greater of the transformers maximum output capacity.

32/1000 & 32/2400 Leading Edge Dimmers			
Part Number	Maximum V.A.	1000	2400
		NR*	NR*
		16	40
		14	34
		9	22
		16	40
		NR*	NR*
		NR*	NR*
		16	40
		9	22
		NR*	NR*
		16	40
		16	40
		14	34
		14	34
		NR*	NR*
		NR*	NR*
		5	12
		6	16
		9	22
		16	40
		16	40
		16	40
		NR*	NR*
		NR*	NR*
		9	22
		16	40
		16	40
		16	40
		9	22
		NR*	NR*
		NR*	NR*
		9	22
		NR*	NR*
		NR*	NR*
		9	22
		NR*	NR*
		NR*	NR*
		6	16
		NR*	NR*
		NR*	NR*
		NR*	NR*

The Quantity of Electronic transformers listed here are based upon the watts capacity of the actual transformer, not upon the size of the lamp connected to the transformer, as it is impossible for CIS to determine whether the installer is underloading the transformer. ie: 50 watt lamp connected to a 70 watt transformer. When using any electronic transformer it is recommended that the lamp attached to it should be 70% or greater of the transformers maximum output capacity.

Notes:

DIN & D750 series Max capacitance loading (nF) per channel **300**

PRO series Max capacitance loading (nF) per channel **1000**

For the formulas used to determine the recommended quantities of listed Transformers, please refer to the Clipsal Integrated Systems Website. www.clipsal.com/cis

NC - "Not Compatible" - Transformer is listed by the manufacturer as only suitable for Trailing / Lagging Edge dimmer control.

NR - "Not Recommended" - The Ratio of Transformer (V.A.) to Transformer capacitance (nF) is deemed not suitable for use on these dimmers.

NR* - It may be possible to use this transformer on the 32/1000 & 32/2400 High Power dimmers, however, the dimmed circuit must be divided into parallel sub-circuits of 400 V.A. or less. Each of these sub-circuits would then require 1 of the 32EIND inductors connected to it. Please Consult CIS Tech Support for further details. email: tech.training@cispl.com.au

L5508D1A when used in conjunction with a 32EIND (400V.A. rating, approx retail listed price \$37.50 in 2004) may allow the individual channel to be fully loaded to 240 V.A. regardless of the transformer capacitance. However, 1 x 32EIND would be required for EACH CHANNEL that exceeds 300nF capacitance.

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Trailing Edge design dimmers are not affected by "Transformer Input Capacitance" concerns, hence their absence from this table.

A High Input Capacitance (>100nF), on a transformer, will present a higher loading to any "Leading Edge" dimmer controlling it. To reduce compatibility problems we recommend the use of transformers with lower capacitance values where possible (<100nF).

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