

Non-SELV LED Drivers

Product description

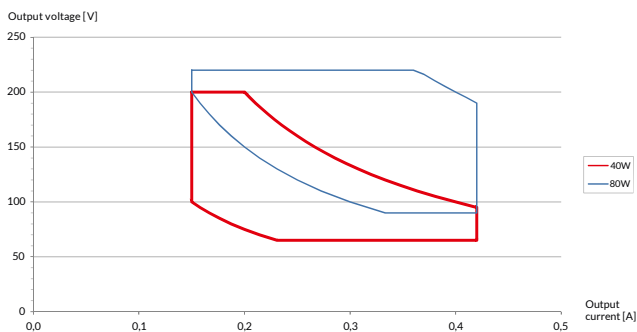
- Constant current LED driver
- Fixed current output, adjustable by Rset
- For class I
- Safety according to EN 61347-1, 61347-2-13
- Performance according to EN 62384
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Non-isolated versions
- Low output ripple current - high quality of light
- Long lifetime - 1 00 000 hours
- Metal housing
- Ingress protection code - IP20



Electrical data

Specification item	Unit	40W	80W
Nominal input voltage	[V]	220 ... 240	220 ... 240
AC voltage range	[V]	202 ... 254	202 ... 254
DC voltage range	[V]	202 ... 254	202 ... 254
Nominal input current	[A]	0.19	0.38
Nominal input frequency	[Hz]	50 / 60 / DC	50 / 60 / DC
Power factor (max output)	[-]	0.98	0.98
Total harmonic distortion	[%]	≤ 15	≤ 15
Efficiency	[%]	91	91
Output voltage	[V]	65 ... 200	90 ... 220
Output maximum voltage	[V]	340	340
Output current	[A]	0.15 ... 0.42	0.15 ... 0.42
Output current tolerance	[%]	± 5	± 5
Output power	[W]	15 ... 40	30 ... 80
Current ripple (LF)	[%]	≤ 4	≤ 4
Control method	[-]	Rset	Rset
Inrush current	[A]	19	19

Operating window



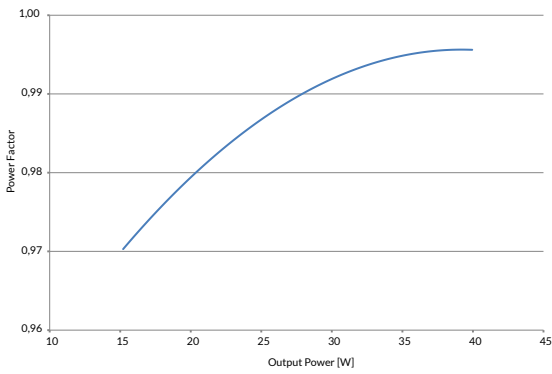
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Graphs (typical values)

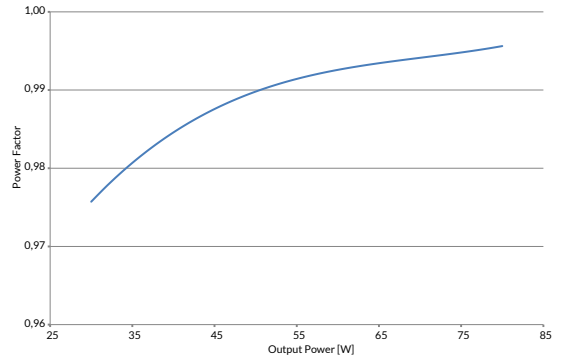
40W

80W

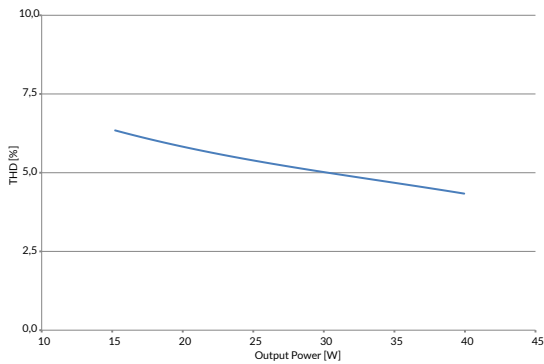
Power factor vs. output power



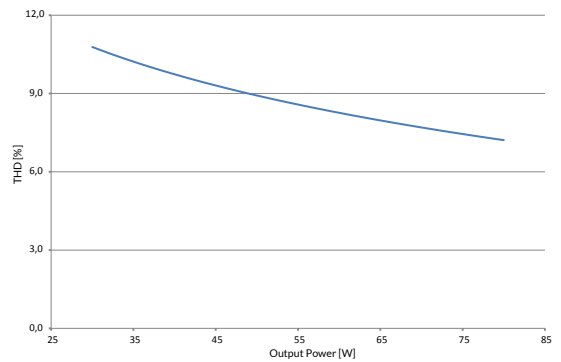
Power factor vs. output power



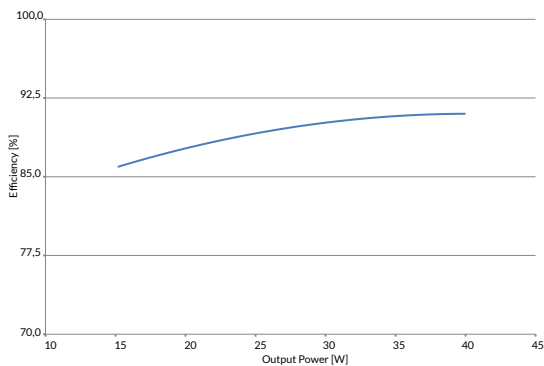
THD vs. output power



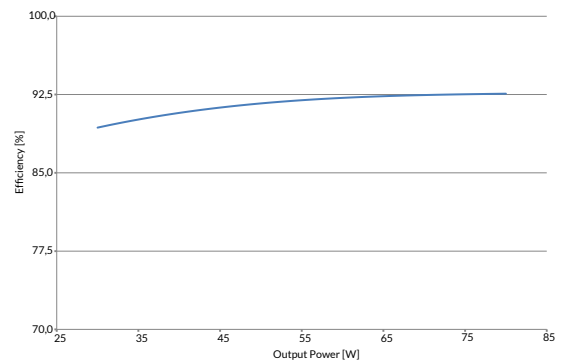
THD vs. output power



Efficiency vs. output power



Efficiency vs. output power

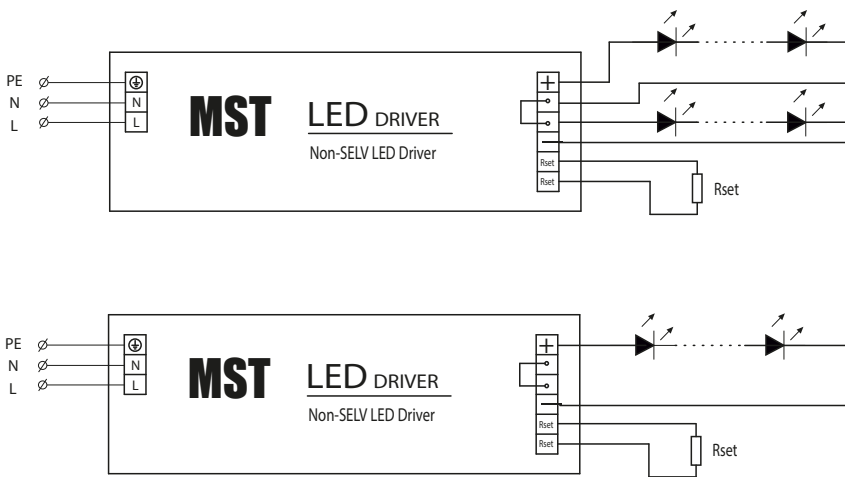


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Wiring (solid wire only)

Specification item	
Wire cross section	0.5 ... 1.5 [mm ²]
Strip length	8 ... 9 [mm]

Wiring for serial connection system



Temperature

Specification item	Unit	40W	80W
Ambient temperature	[°C]	-25 ... +50	-25 ... +45
Tcase	[°C]	75	75

Surge immunity

Specification item	Unit	40W	80W
Mains surge immunity - differential mode	[kV]	1	1
Mains surge immunity - common mode	[kV]	2	2

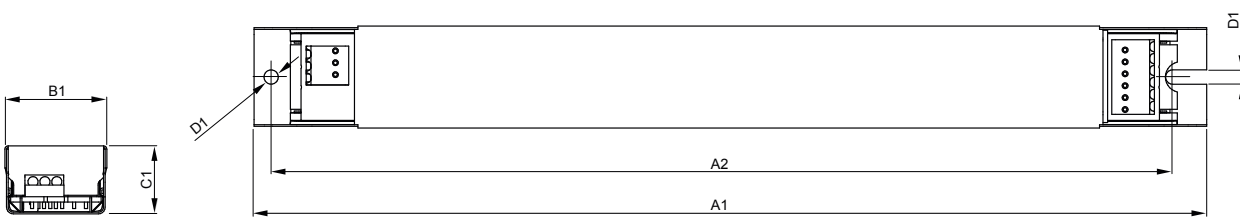
Protections / Approvals

Specification item	
Open load protection	yes
Short circuit protection	yes
Approval marks	CE / ENEC

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Mechanical

Specification item	Unit	40W	80W
Length (A1)	[mm]	280	280
Width (B1)	[mm]	30	30
Height (C1)	[mm]	21	21
Fixing hole diameter (D1)	[mm]	4.2	4.2
Fixing hole distance (A2)	[mm]	265	265
Weight	[g]	184	194



Ordering codes

Specification item	40W	80W
LED Driver 40W 65-200V 0.15-0.42A	1010 120 10546	
LED Driver 80W 90-220V 0.15-0.42A		1010 120 10646

Rset ordering codes

Product name	Ordering code	I _{LED} [mA]
Open	-	not allowed
Rset 36k Ohm	1010 115 15146	150
Rset 33k Ohm	1010 115 15246	154
Rset 27k Ohm	1010 115 15346	164
Rset 22k Ohm	1010 115 15446	175
Rset 18k Ohm	1010 115 15546	188
Rset 15k Ohm	1010 115 15646	201
Rset 12k Ohm	1010 115 15746	218
Rset 10k Ohm	1010 115 15846	233
Rset 8.2k Ohm	1010 115 15946	251
Rset 6.8k Ohm	1010 115 16046	267
Rset 5.6k Ohm	1010 115 16146	285
Rset 4.7k Ohm	1010 115 16246	300
Rset 3.9k Ohm	1010 115 16346	317
Rset 3.3k Ohm	1010 115 16446	331
Rset 2.7k Ohm	1010 115 16546	347
Rset 2.2k Ohm	1010 115 16646	362
Rset 1.8k Ohm	1010 115 16746	376
Rset 1.5k Ohm	1010 115 16846	387
Rset 1.2k Ohm	1010 115 16946	399
Rset 1k Ohm	1010 115 17046	407
Rset 0.82k Ohm	1010 115 17146	416
Rset 0.75k Ohm	1010 115 17246	420
Short	-	not allowed