

LED Drivers High Power

Product description

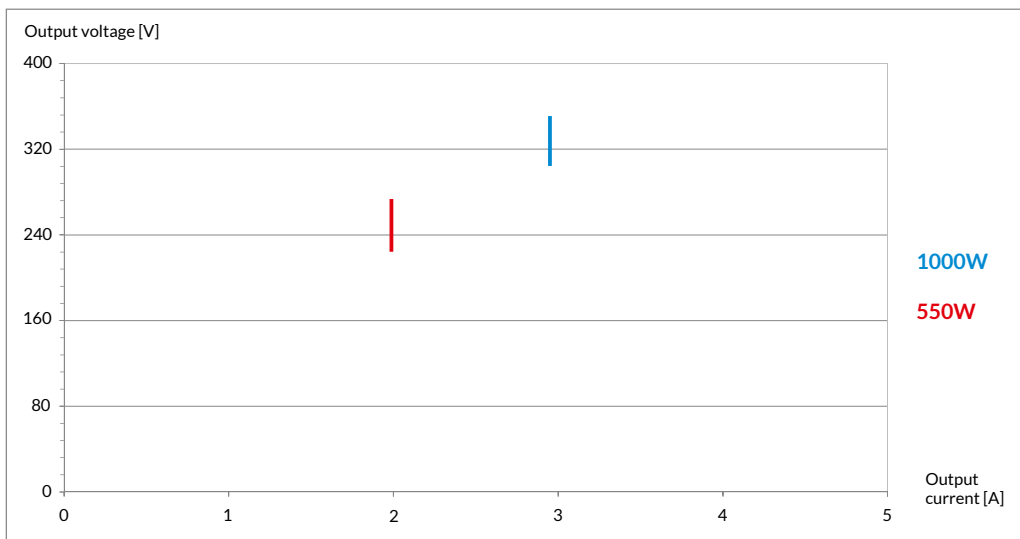
- High power output
- Efficiency above 90%
- Constant current fixed LED driver
- Non-isolated versions
- Long lifetime - 100 000 hours
- Metal housing
- Ingress protection code - IP65
- 3 phase 1000W version
- Dimming up to 60% via Art-Net for 1000W version
- Flicker free 1000W version
- Wieland connectors



Electrical data

Specification item	Unit	550W	1000W
Nominal input voltage	[V]	400	3x400V +N
AC voltage range	[V]	368 ... 424	3x368 ... 424V +N
Nominal input current	[A]	1.58	3x1.55
Nominal input frequency	[Hz]	50	50
Power factor (max output)	[-]	0.95	0.95
Total harmonic distortion	[%]	≤ 20	≤ 20
Efficiency	[%]	92	91
Output voltage	[V]	230 ... 275	300 ... 350
Output maximum voltage	[V]	350	650
Output current	[A]	2	3
Output current tolerance	[%]	± 5	± 5
Output power	[W]	360 ... 550	600 ... 1000
Current ripple (LF)	[%]	16	≤ 5
Inrush current	[A]	15	20
Control method		Fixed	Dimming via Art-Net

Operating window

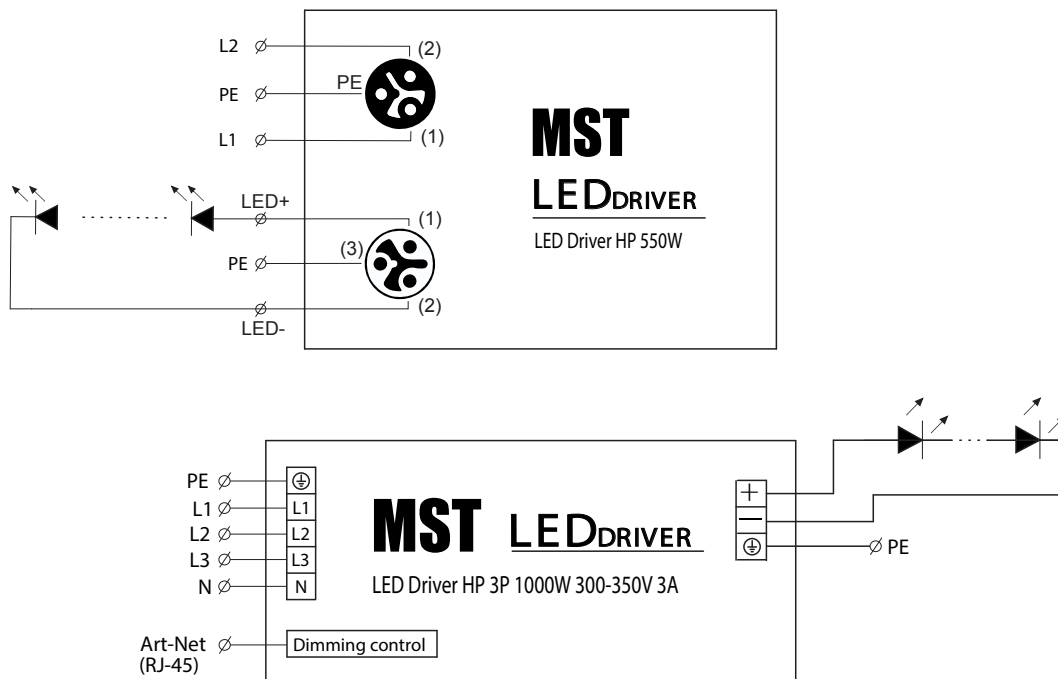


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Wiring

Specification item	
Wire cross section	0.75 ... 1.5 [mm ²]
Strip length	8 ... 9 [mm]

Wiring for serial connection system



Temperature

Specification item	Unit	550W	1000W
Ambient temperature	[°C]	-25 ... +45	-25 ... +45
Tcase	[°C]	75	75

Surge immunity

Specification item	Unit	550W	1000W
Mains surge immunity - differential mode	[kV]	4	4
Mains surge immunity - common mode	[kV]	8	8

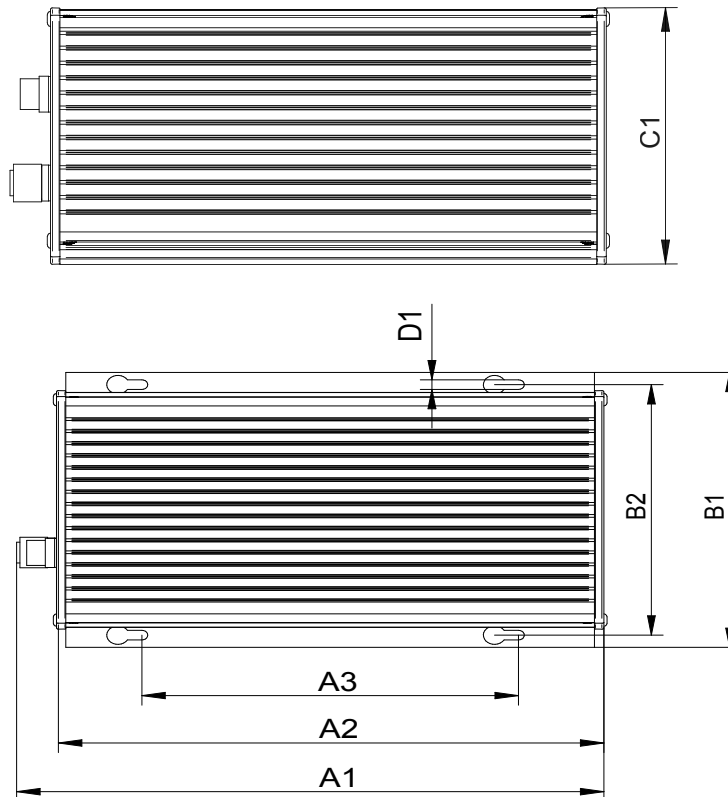
Protections / Approvals

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

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Mechanical

Specification item	Unit	LED Drivers HP	
		550W	1000W
Length (A1)	[mm]	315	535
Length (A2)	[mm]	293	470
Length (A3)	[mm]	202	418
Width (B1)	[mm]	180	180
Width (B2)	[mm]	163	163
Height (C1)	[mm]	136	136
Fixing hole diameter (D1)	[mm]	6	6
Weight	[kg]	9	20



Ordering codes

Specification item	550W	1000W
LED Driver HP 550W 230-275V 2A	1010 120 11646	
LED Driver HP 3P 1000W 300-350V 3A		1010 120 11746

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Example of LED Engine (driver + modules) combination.

LED Module	RecLED 122x50mm 1900lm 740 2x4 Opt G1	RecLED 173x50mm 2900lm 740 2x6 Opt G1	RecLED 224x50mm 3800lm 740 2x8 Opt G1
Current [mA]	1000	1000	1000
Luminus flux [lm]	3393	5089	6786
Voltage [V]	23	34	46
Power [W]	23	34	46
Efficiency [lm/W]	149	149	149
LED Driver HP 550W 230-275V 2A			
Efficiency [%]	91%	91%	91%
Output current [mA]	2000	2000	2000
Output voltage [V]	230-275	230-275	230-275
LED Driver HP 3P 1000W 300-350V 3A			
Efficiency [%]	91%	91%	91%
Output current [mA]	3000	3000	3000
Output voltage [V]	300-350	300-350	300-350
LED Engine for LED Driver HP 550W			
Number of modules connected in series	11	8	5
Number of modules series connected in parallel	2	2	2
Total number of LED modules	22	16	10
Voltage [V]	253	272	230
Current [mA]	2000	2000	2000
Power [W]	506	544	460
Driver losses [W]	50	54	45
Luminus flux [lm]	74 646	81 424	67 860
LED module + driver efficiency [lm/W]	134	136	134
LED Engine for LED Driver HP 3P 1000W			
Number of modules connected in series	14	10	7
Number of modules series connected in parallel	3	3	3
Total number of LED modules	42	30	21
Voltage [V]	322	340	322
Current [mA]	3000	3000	3000
Power [W]	966	1020	966
Driver losses [W]	94	101	96
Luminus flux [lm]	142 506	152 670	142 506
LED module + driver efficiency [lm/W]	134	134	134
LED Engine for 2x LED Driver HP 3P 1000W			
Number of modules connected in series	14	10	7
Number of modules series connected in parallel	3	3	3
Number of channels	2	2	2
Total number of LED modules	84	60	42
Current per one chanel [mA]	3000	3000	3000
Voltage per one chanel [V]	322	340	322
Power [W]	1932	2040	1932
Driver losses [W]	191	202	191
Luminus flux [lm]	285 012	305 340	285 012
LED module + driver efficiency [lm/W]	134	136	134