

LED
by DESIGN



LBD-42W300-1050-CAS

Constant Current Dimmable Driver

LBD-42W300-1050-CAS

CASAMBI



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LBD-42W300-1050-CAS	300mA	0.07A	15.4W	6.00-12.60W	0.7	82%	20-42V	55V
	350mA	0.08A	17.9W	7.00-14.70W	0.75	82%	20-42V	55V
	400mA	0.09A	20.5W	8.00-16.80W	0.85	82%	20-42V	55V
	450mA	0.10A	22.8W	9.00-18.90W	0.88	83%	20-42V	55V
	500mA	0.11A	25.3W	10.00-21.00W	0.89	83%	20-42V	55V
	550mA	0.12A	27.8W	11.00-23.10W	0.9	83%	20-42V	55V
	600mA	0.14A	30.4W	12.00-25.20W	0.92	83%	20-42V	55V
	650mA	0.15A	32.5W	13.0-27.30W	0.92	84%	20-42V	55V
	700mA	0.16A	35W	14.00-29.40W	0.92	84%	20-42V	55V
	750mA	0.17A	37.5W	15.00-31.50W	0.92	84%	20-42V	55V
	800mA	0.18A	40W	16.00-33.60W	0.92	84%	20-42V	55V
	850mA	0.18A	40W	17.0-34.00W	0.92	85%	20-40V	55V
	900mA	0.2A	42.4W	18.00-36.00W	0.92	85%	20-40V	55V
	950mA	0.2A	44.7W	19.00-38.00W	0.92	85%	20-40V	55V
	1000mA	0.23A	46.5W	20.00-40.00W	0.92	86%	20-40V	55V
	1050mA	0.25A	48.8W	21.00-42.00W	0.92	86%	20-40V	55V

* Test result @230V, 50Hz, Full Load.

1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Bluetooth
	Dimming range	1%-100%
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC or 176-280VDC
	Frequency	50/60Hz
	Input Current	≤0.28A (230VAC,full load)

17/F Yue Hing Building
103 Hennessy Road
Wanchai, Hong Kong

June - 2022

LBD-42W300-1050-CAS

	Input Power	≤48.8W (230VAC,full load)
	Power Factor	≥0.92 (230VAC,full load)
	THD	≤20% (230VAC,full load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤18A/2.8us (230VAC, full load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	11pcs/type A ; 17pcs/type B ; 28pcs/type C @ 230Vac 18pcs/type A; 27pcs/type B ; 44pcs/type C @ 230Vac 22pcs/type A; 33pcs/type B ; 55pcs/type C @ 230Vac
Output	Output Voltage Range	20-42VDC@300-800mA 20-40VDC@850-1050mA
	No Load Voltage	55VDC Max.
	Output Current	300mA -1050mA (Max. output)
	Max. Output Power	42W
	Efficiency	≥86% (230VAC, full load)
	Current Ripple	±5% (Imax-Imin)/(Imax+Imin)
	Current Accuracy	±5%
	Started Delay Time	≤0.5S (230VAC, full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-20....+35℃
	Ts/Storage Temperature	-40....+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-1.5 [□]
	SEC Wire preparation	0.5-1.5 [□]
	Dimension	250 x 31 x 45mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta/ Tc

Warranty	5years , F.R. < 10000ppm
Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature. 2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.	

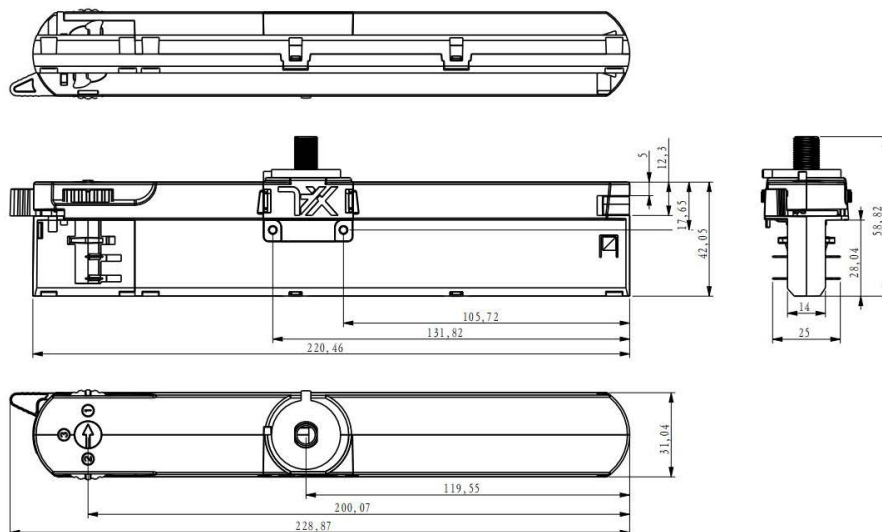
2. Output Current Setting

Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

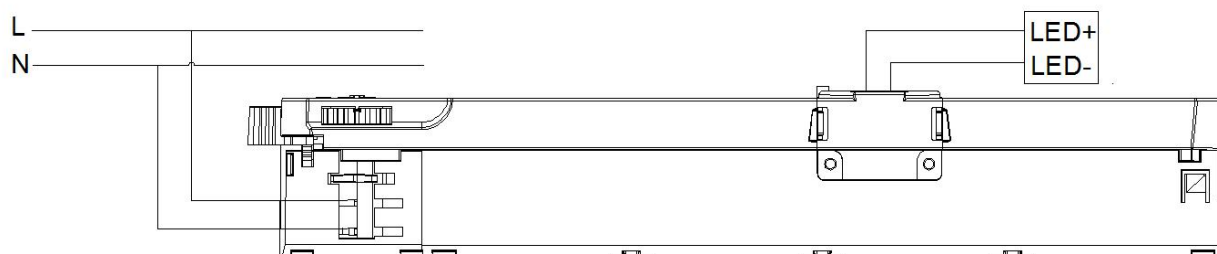
3. Label

LED W 2020 Integrated LED Driver Casambi Include	ERC SELV CE	<table><tr><th>Pout [W]</th><th>Iout [mA]</th><th>In [A]</th><th>λ</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th></tr><tr><td>12.6</td><td>300</td><td>0.09</td><td>0.88</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>14.7</td><td>350</td><td>0.10</td><td>0.87</td><td>-</td><td>-</td><td>-</td><td>-</td><td>ON</td></tr><tr><td>16.8</td><td>400</td><td>0.12</td><td>0.88</td><td>-</td><td>-</td><td>-</td><td>ON</td><td>-</td></tr><tr><td>18.9</td><td>450</td><td>0.13</td><td>0.89</td><td>-</td><td>-</td><td>-</td><td>ON</td><td>ON</td></tr><tr><td>21</td><td>500</td><td>0.14</td><td>0.90</td><td>-</td><td>-</td><td>ON</td><td>-</td><td>-</td></tr><tr><td>23.1</td><td>550</td><td>0.15</td><td>0.91</td><td>-</td><td>-</td><td>ON</td><td>ON</td><td>-</td></tr><tr><td>25.2</td><td>600</td><td>0.16</td><td>0.92</td><td>-</td><td>-</td><td>ON</td><td>ON</td><td>-</td></tr><tr><td>27.3</td><td>650</td><td>0.17</td><td>0.93</td><td>-</td><td>-</td><td>ON</td><td>ON</td><td>ON</td></tr></table>	Pout [W]	Iout [mA]	In [A]	λ	1	2	3	4	5	12.6	300	0.09	0.88	-	-	-	-	-	14.7	350	0.10	0.87	-	-	-	-	ON	16.8	400	0.12	0.88	-	-	-	ON	-	18.9	450	0.13	0.89	-	-	-	ON	ON	21	500	0.14	0.90	-	-	ON	-	-	23.1	550	0.15	0.91	-	-	ON	ON	-	25.2	600	0.16	0.92	-	-	ON	ON	-	27.3	650	0.17	0.93	-	-	ON	ON	ON	0.5-1.5 Ø 6mm SEC + + to to 80°C to 85°C 1 2 3 4 5 1 2 3 4 5	<table><tr><th>Pout [W]</th><th>Iout [mA]</th><th>In [A]</th><th>λ</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th></tr><tr><td>29.4</td><td>700</td><td>0.18</td><td>0.94</td><td>ON</td><td>ON</td><td>-</td><td>-</td><td>-</td></tr><tr><td>31.5</td><td>750</td><td>0.19</td><td>0.94</td><td>ON</td><td>ON</td><td>-</td><td>-</td><td>ON</td></tr><tr><td>33.6</td><td>800</td><td>0.21</td><td>0.95</td><td>ON</td><td>ON</td><td>-</td><td>ON</td><td>-</td></tr><tr><td>34</td><td>850</td><td>0.22</td><td>0.95</td><td>ON</td><td>ON</td><td>-</td><td>ON</td><td>ON</td></tr><tr><td>36</td><td>900</td><td>0.23</td><td>0.96</td><td>ON</td><td>ON</td><td>ON</td><td>-</td><td>-</td></tr><tr><td>38</td><td>950</td><td>0.23</td><td>0.96</td><td>ON</td><td>ON</td><td>ON</td><td>-</td><td>ON</td></tr><tr><td>40</td><td>1000</td><td>0.24</td><td>0.97</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td><td>-</td></tr><tr><td>42</td><td>1050</td><td>0.24</td><td>0.97</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td></tr></table>	Pout [W]	Iout [mA]	In [A]	λ	1	2	3	4	5	29.4	700	0.18	0.94	ON	ON	-	-	-	31.5	750	0.19	0.94	ON	ON	-	-	ON	33.6	800	0.21	0.95	ON	ON	-	ON	-	34	850	0.22	0.95	ON	ON	-	ON	ON	36	900	0.23	0.96	ON	ON	ON	-	-	38	950	0.23	0.96	ON	ON	ON	-	ON	40	1000	0.24	0.97	ON	ON	ON	ON	-	42	1050	0.24	0.97	ON	ON	ON	ON	ON
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4. Dimension



5. Wiring Diagram



6. Ordering information

Ordering Code	Colour
LBD-42W300-1050-CAS-W	White
LBD-42W300-1050-CAS-B	Black

8. Suitable for following tracks

Serial number	Brand	Track model	System
1	Global	XTS 4 & XTSE 4	3P
2	Stucchi	9000XX Series	3P
3	Eutrac	2510x	3P
4	Unipro	T32B	3P
5	Ivela	7501	3P
6	ERCO	783	3P
7	Hoffmeister	/	3P

11. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advice the maximum length of output wires is 3 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)