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- Available for DALI device type 6(DT6) and device type 8(DT8) Tunable White control
- · Constant power mode output with 2 channels
- · Plastic housing with class II design
- · Built-in active PFC function
- Standby power consumption < 0.5W</li>
- Minimum dimming level 0.2%
- Cooling by free air convection
- · 5 years warranty

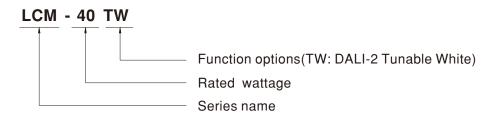
# Applications

- · Tunable White Lighting
- Downlight
- · Panel Light
- · Decorative Light
- Industrial lighting
- · DALI Building automation

# Description

LCM-40TW Series is a 40W constant power output LED driver with two channels output for Tunable white function. It can operate from 180~277V AC and output current ranging between 500 mA to 1050 mA selectable by dip switch. Thanks to high efficiency up to 87%, it is able to operate for -30 °C ~85 °C case temperature under free air convection. LCM-40TW is designed based on DALI-2 DT8 Tunable white function and is also usable as two independent output channels with DT6 applications. LCM-40TW can be adjusted for light intensity and color temperature by a push button as a simple way dimming, so it provides the optimal design flexibility for LED Lighting luminaires.

# ■ Model Encoding



# 40W Constant Power Mode With Tunable White LED Driver

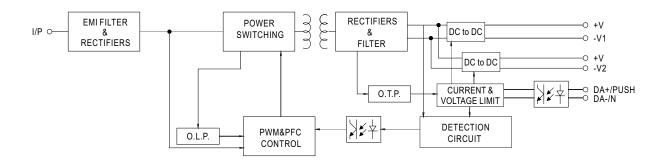
# LCM-40TW series

# **SPECIFICATION**

OUTPUT CHANNEL DVOLTAGE RANGE RATED POWER AND MARK stell NO LOD VOLTAGE RANGE RATED POWER AND MARK stell NO LOD VOLTAGE RANGE SSV  CURRENT ADL RANGE (RYD PS WITCH) CURRENT RIPLE NOIS DIMMING RANGE START UP TIME Nois PROUNT RANGE FREQUENCY	MODEL		LCM-40TW			
ANTED POWER  NO LOAD YOLTAGE  SOUM Mar. total  OUTPUT		OUTPUT CHANNEL	CH1	CH2		
NOLDA POLITAGE   SSV   SSV   SSV   SSV   SSV   SSV   CURRENT DATE, ANDE   CURRENT DATE, ANDE   CURRENT DATE, ANDE   CONTROL TO START UP TIME   Notes   2%   SSV		DC VOLTAGE RANGE	20~50V	20~50V		
CURRENT ADUL RANGE   (20 PD SWITCH)   500-1050mA   500-		RATED POWER	40W Max. total			
BY DIP SWITCH    CURRENT RIPPLE   Notes   25%		NO LOAD VOLTAGE	53V	53V		
DIMMING RANGE   0-100%   START UP TIME   Notes   500ms/230VAC   260-390VDC   FREQUENCY RANGE   47 - 63Hz   77 -	OUTPUT		500~1050mA	500~1050mA		
START UP TIME   Nove   S00ms/230VAC		CURRENT RIPPLE Note5	<2%			
VOLTAGE RANGE		DIMMING RANGE	0~100%			
FREQUENCY RANGE		START UP TIME Note9	500ms/230VAC			
FREQUENCY RANGE		VOLTAGE RANGE	180~277VAC 260~390VDC			
INPUT  TOTAL HARNONIC  (Please refer to "TOTAL HARNONIC DISTORTION(THD)" section)  EFFICIENCY(Typ.) Note:  4.7 (Please refer to "TOTAL HARNONIC DISTORTION(THD)" section)  EFFICIENCY(Typ.)  NOTE  AC CURRENT  O. 23/A2390VAC  (Please refer to "TOTAL HARNONIC DISTORTION(THD)" section)  EFFICIENCY(Typ.)  INRUSH CURRENT  O. 23/A2390VAC  COLD START 20A(twidth=310.ps measured at 50%   peak) at 230VAC; Per NEMA 410  LEAKAGE CURRENT  O. 75mA/277VAC  STANDBY POWER  CONSUMPTION Natus  OVERLOAD  OVERLOAD  OVERLOAD  OVERLOAD  OVERLOAD  OVERLOAD  OVERLOAD  OVER TEMPERATURE  Stage 1: Derating to 70% loading: stage2: Shut down. Recovers automatically after fault condition is removed  WORKING TEMP.  OVER TEMPERATURE  OVER TEMPERATURE  OVER TEMPERATURE  NORKING HUMIDITY  20 = 90% RH non-condensing  TEMP. COLEFICIENT  VIBRATION  OPERATING ALTITUDE  OVERATING ALTITUDE  OVERATING ALTITUDE  OVERATING ALTITUDE  SAFETY SANDARDS  DALI STANDARDS  OPERATING ALTITUDE  ORDINATION RESISTANCE  IPI-00/P-3.76KVAC  Ompliance to ENS5015, EN6100-3-2. Class C(@load 50%); EN6100-3-3; GB17525.1, GB17743, EAC TPTC 020  MTBF  OTHERS  DIMENSION  1.25.578.15.523mm (LTWH)  PACKING  1.4 Al parameters NOT specially mentioned are measured at 2500-000 delivery.  Standay power consumption is measured at 1800-000 delivery.  Standay power consumption is measured at 180			47 ~ 63Hz			
INPUT    EFFICIENCY(Typ.)   Note4   87%   87%   200   23A/230VAC		POWER FACTOR	PF≥0.98/230VAC,PF≥0.95/277VAC@full load			
AC CURRENT   0.23A/230VAC   COLD START 20A(twidth=310µs measured at 50% lpeak) at 230VAC; Per NEMA 410			THD< 10%(@load 50%/230VAC; @load 75%/277VAC)			
AC CURRENT 0.23A/230VAC INRUH CURRENT COLD START 20A(twidth=310µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 LEAKAGE CURRENT CONSUMPTION Notes Standby power consumption-0.5W (Dimming off)  WERLOAD 105-135% rated output power Protection type: Hickoup mode, recovers automatically after fault condition is removed.  BYORICISCUIT Constant current limiting, recovers automatically after fault condition is removed.  WORKING TEMP. Tasse=30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tasse=85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  WORKING HUMIDITY 20 - 90% RH non-condensing  ENVIRONMENT TEMP. CONSTRUCT CONSTRUCTION 10 - 500°C)  VIBRATION 10 - 500Hz, 26 Tomin, 1/cycle, period for 60min, each along X, Y, Z axes  OPERATING ALTITUDE 2000 meters  SAFETY SEAD DATE OF THE STANDARDS COMPLY	INPUT	EFFICIENCY(Typ.) Note4	87%			
LEAKAGE CURRENT   <0.75ma/277VAC   STANDBY POWER CONSUMPTION Notes   Standby power consumption <0.5W (Dimming off)		, ,	0.23A/230VAC			
LEAKAGE CURRENT   <0.75ma/277VAC   STANDBY POWER CONSUMPTION Notes   Standby power consumption <0.5W (Dimming off)		INRUSH CURRENT	COLD START 20A(twidth=310µs measured at 50% lpeak) at	230VAC; Per NEMA 410		
STANDBY POWER CONSUMPTION Notes    STANDBY POWER CONSUMPTION Notes		LEAKAGE CURRENT	, , ,	·		
PROTECTION  OVERLOAD  105-135% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed.  SHORT CIRCUIT  Constant current limiting, recovers automatically after fault condition is removed.  WORKING TEMP.  WORKING TEMP.  Tcase=-30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP.  WORKING HUMIDITY  20 - 90% RRH non-condensing  STORAGE TEMP, HUMIDITY  10 - 90% RRH non-condensing  STORAGE TEMP, HUMIDITY  10 - 500Hz, 2g 10min./1 cycle, period for 60min. each along X, Y, Z axes  OPERATING ALTITUDE  SAFETY STADARDS  ENCE CREGISTAT-1, ENG1347-2-13, ENG2384 independent, GB19510.14, GB19510.1, EAC TPTC 004 approved  DALI STANDARDS  Comply with IEC62386-101, 102, 207 (DT6), 209 (DT8), 251  WITHSTAND VOLTAGE  ISOLATION RESISTANCE  EMC EMISSION  Compliance to EN61000-4-2,3.4,5.6.8.11, EN61547, light industry level(surge immunity Line-Line 2KV), EAC TPTC 020  EMC IMMUNITY  Compliance to EN61000-4-2,3.4,5.6.8.11, EN61547, light industry level(surge immunity Line-Line 2KV), EAC TPTC 020  MTBF  2111.7 kh rs min. Telcordic SR-332 (Belicore)  177.4 khrs min. MIL-HDBK-217F (25 °C)  DIMENSION  123.5*81-5*232mm (L*W*H)  PACKING  0.24 kg; 54pcs/15kg/1.12 CUFT  1. All parameters NOT specially mentioned are measured at 1230 VAC input, rated current and 25°C of ambient temperature.  2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  3. Length of set up time is measured at 1001-ASOV output set by DIP switch.  5. Current ripple is measured 35%-100% of maximum voltage under rated power delivery.  6. Standby power consumption is measured at 180-230VAC.  7. The driver is considered a example ment that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  8. The ambient temperature decrating of 35°C (10000m with falaness models and of 5°						
PROTECTION  Protection type: Hiccup mode, recovers automatically after fault condition is removed.  SHORT CIRCUIT Constant current limiting, recovers automatically after fault condition is removed.  WORKING TEMP. Tcase-30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tcase-30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tcase-30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tcase-30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tcase-35°C  WORKING HUMIDITY 40 - +80°C, 10 - 95% RH  TEMP. COEFFICIENT ±0.03%/"C (0 - 50°C)  VIBRATION 10 - 500Hz, 26 10min./1cycle, period for 60min. each along X, Y, Z axes  OPERATING ALITITUDE 2000 meters  SAFETY STANDARDS ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS Comply with IEC62386-101, 102, 207(DT6),209(DT8),251  WITHSTAND VOLTAGE IP-O/P:>10P-O/P		CONSUMPTION Note6	standby power consumption<0.5W (Dimming off)			
PROTECTION  SHORT CIRCUIT Constant current limiting, recovers automatically after fault condition is removed.  OVER TEMPERATURE  Stage 1: Derating to 70% loading; stage2: Shut down. Recovers automatically after fault condition is removed.  WORKING TEMP.  MAX. CASE TEMP.  Tcase=-30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MORKING HUMIDITY 20 - 90% RPI non-condensing  STORAGE TEMP, HUMIDITY 40 - +80°C, 10 - 95% RH  TEMP. COEFFICIENT ±0.03%/C (0 - 50°C)  VIBRATION 10 - 500Hz, 2G 10min/tcycle, period for 60min. each along X, Y, Z axes  OPERATING ALTITUDE 2000 meters  SAFETY STANDARDS ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS   ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS   ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS   ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS   ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS   ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS   ENCE EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS   ENCE EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  EMC EMISSION   Compliance to EN51000-4-2-3, 4, 5, 6, 8, 11, EN61547, light industry level(surge immunity Line-Line 2kV), EAC TP TC 020  MTBF   2111.7k hrs min. Telocorial SR-332 (Belleore)   177.4khrs min. MIL-HDBK-217F (25°C)  DIMENSION   123.5°81.5°23mm (L*W*H)  PACKING   0.24Kg; 54pcs/15Kg/1.12CUFT   STATIC CHARACTERISTIC* sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/S070 voluptust set by DIP		OVERLOAD				
SHORT CIRCUIT OVER TEMPERATURE Stage 1: Derating to 70% loading; stage2: Shut down.Recovers automatically after fault condition is removed  WORKING TEMP. Tcase=30~95°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)  MAX. CASE TEMP. Tcase=85°C WORKING HUMIDITY 20~90% RH non-condensing  STORAGE TEMP, HUMIDITY 40~+80°C, 10~95% RH  TEMP. COEFFICIENT 10~50°HZ VIBRATION 10~50°HZ VIBRATION 10~50°HZ, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes OPERATING ALTITUDE SAFETY STANDARDS ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved DALI STANDARDS Comply with IEC62386-101, 102, 207(DT6),209(DT8),251  WITHSTAND VOLTAGE IPP-0/P:3.75KVAC ISOLATION RESISTANCE IPP-0/P:3.75KVAC ISOLATION RESISTANCE IPP-0/P:3.75KVAC ISOLATION RESISTANCE IPP-0/P:3.15KVAC ISOLATION RESIS	PROTECTION					
WORKING TEMP.   Tcase=-30-85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)	. KOTZOTION	SHORT CIRCUIT	<u> </u>			
MAX. CASE TEMP.   Tcase=85°C   WORKING HUMIDITY   20 ~ 90% RH non-condensing		OVER TEMPERATURE	Stage 1: Derating to 70% loading; stage2: Shut down.Recov	ers automatically after fault condition is removed		
WORKING HUMIDITY   20 ~ 90% RH non-condensing		WORKING TEMP.	Tcase=-30~85 $^{\circ}$ C (Please refer to "OUTPUT LOAD vs TEMP	ERATURE" section)		
STORAGE TEMP, HUMIDITY   40 ~ +80°C, 10 ~ 95% RH   TEMP. COEFFICIENT   ±0.03%/°C (0 ~ 50°C)   VIBRATION   10 ~ 500Hz, 26 10min./1cycle, period for 60min. each along X, Y, Z axes   OPERATING ALTITUDE   2000 meters   SAFETY STANDARDS   ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved   DALI STANDARDS   Comply with IEC62386-101, 102, 207 (DT6), 209 (DT8), 251   WITHSTAND VOLTAGE   I/P-O/P:3.75KVAC   ISOLATION RESISTANCE   I/P-O/P:>100M ohms / 500VDC / 25°C / 70% RH   EMC EMISSION   Compliance to EN55015, EN61000-3-2 Class C (@load 50%); EN61000-3-3; GB17625.1, GB17743, EAC TP TC 020   EMC EMISSION   Compliance to EN55015, EN61000-3-2 Class C (@load 50%); EN61000-3-3; GB17625.1, GB17743, EAC TP TC 020   EMC IMMUNITY   Compliance to EN55015, EN61000-3-2 Class C (@load 50%); EN61000-3-3; GB17625.1, GB17743, EAC TP TC 020   EMC IMMUNITY   Compliance to EN55015, EN61000-3-2 Class C (@load 50%); EN61000-3-3; GB17625.1, GB17743, EAC TP TC 020   EMC IMMUNITY   Compliance to EN55015, EN61000-3-2 Class C (@load 50%); EN61000-3-3; GB17625.1, GB17743, EAC TP TC 020   EMC IMMUNITY   EMDISON   123.5°81.5°23mm (L'W*H)   PACKING   0.24Kg; 54pcs/15Kg/1.12CUFT   Interest   2000		MAX. CASE TEMP.	Tcase=85℃			
TEMP. COEFFICIENT  VIBRATION  10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes  OPERATING ALTITUDE  2000 meters  SAFETY STANDARDS  DALI STANDARDS  DALI STANDARDS  DALI STANDARDS  DALI STANDARDS  DALI STANDARDS  WITHSTAND VOLTAGE  I/P-O/P:3.75KVAC  ISOLATION RESISTANCE  I/P-O/P:3.75KVAC  ISOLATION RESISTANCE  MTBF  2111.7K hrs min. Telcordia SR-332 (Bellcore)  TY. 4Khrs min. MIL-HDBK-217F (25°C)  MTBF  2111.7K hrs min. Telcordia SR-332 (Bellcore)  TY. 4Khrs min. MIL-HDBK-217F (25°C)  MTBF  2111.7K hrs min. Telcordia SR-332 (Bellcore)  NOTE  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured at 180-230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500tf). 9. Based on IEC 62386-101/102 DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales.		WORKING HUMIDITY	20 ~ 90% RH non-condensing			
VIBRATION	ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40~+80°C, 10~95% RH			
SAFETYSEMC   SAFETY STANDARDS   ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved		TEMP. COEFFICIENT	±0.03%/°C (0~50°C)			
SAFETY STANDARDS ENEC EN61347-1, EN61347-2-13, EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004 approved  DALI STANDARDS Comply with IEC62386-101, 102, 207 (DT6),209 (DT8),251  WITHSTAND VOLTAGE I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH  EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C(@load 50%); EN61000-3-3; GB17625.1, GB17743, EAC TP TC 020  EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level(surge immunity Line-Line 2KV), EAC TP TC 020  MTBF 2111.7K hrs min. Telcordia SR-332 (Bellcore) 177.4Khrs min. MIL-HDBK-217F (25°C)  DIMENSION 123.5°81.5°23mm (L*W*H)  PACKING 0.24Kg; 54pcs/15Kg/1.12CUFT  NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at 180-230VAC. 4. Efficiency is measured at 800%-100% of maximum voltage under rated power delivery. 5. Current ripple is measured 50%-100% of maximum voltage under rated power delivery. 6. Standby power consumption is measured at 180-230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500t). 9. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales.				X, Y, Z axes		
DALI STANDARDS Comply with IEC62386-101, 102, 207 (DT6), 209 (DT8), 251  WITHSTAND VOLTAGE I/P-O/P:3.75KVAC  ISOLATION RESISTANCE I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH  EMC EMISSION Compliance to EN55015, EN61000-3-2 Class C(@load 50%); EN61000-3-3; GB17625.1, GB17743, EAC TP TC 020  EMC IMMUNITY Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547, light industry level(surge immunity Line-Line 2KV), EAC TP TC 020  MTBF 2111.7K hrs min. Telcordia SR-332 (Bellcore) 177.4Khrs min. MIL-HDBK-217F (25°C)  DIMENSION 123.5°81.5°23mm (L*W*H)  PACKING 0.24Kg; 54pcs/15Kg/1.12CUFT  NOTE  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at firs cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. 6. Standby power consumption is measured at 180-230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5°C/1000m with fanaless models and 6.5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 9. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales.		OPERATING ALTITUDE	2000 meters			
SAFETY&EMC    WITHSTAND VOLTAGE   I/P-O/P:3.75KVAC     ISOLATION RESISTANCE   I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH     EMC EMISSION   Compliance to EN55015, EN61000-3-2 Class C(@load 50%); EN61000-3-3; GB17625.1,GB17743, EAC TP TC 020     EMC IMMUNITY   Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level(surge immunity Line-Line 2KV), EAC TP TC 020     MTBF   2111.7K hrs min. Telcordia SR-332 (Bellcore)   177.4Khrs min. MIL-HDBK-217F (25°C)     DIMENSION   123.5*81.5*23mm (L*W*H)     PACKING   0.24Kg; 54pcs/15Kg/1.12CUFT     NOTE   1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. 6. Standby power consumption is measured at 180-230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 9.Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales.		SAFETY STANDARDS	ENEC EN61347-1, EN61347-2-13, EN62384 independent, 0	GB19510.14,GB19510.1, EAC TP TC 004 approved		
SOLATION RESISTANCE   I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH		DALISTANDARDS	Comply with IEC62386-101, 102, 207(DT6), 209(DT8), 251			
ISOLATION RESISTANCE   I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH	CAFETYSEMO	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
EMC IMMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level(surge immunity Line-Line 2KV), EAC TP TC 020  MTBF  2111.7K hrs min. Telcordia SR-332 (Bellcore)  177.4Khrs min. MIL-HDBK-217F (25℃)  DIMENSION  123.5*81.5*23mm (L*W*H)  PACKING  0.24Kg; 54pcs/15Kg/1.12CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. 6. Standby power consumption is measured at 180~230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 9.Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales.	SAFETY&ENIC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH			
MTBF  2111.7K hrs min. Telcordia SR-332 (Bellcore)  177.4Khrs min. MIL-HDBK-217F (25°C)  DIMENSION  123.5*81.5*23mm (L*W*H)  PACKING  0.24Kg; 54pcs/15Kg/1.12CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured 30%~100% of maximum voltage under rated power delivery. 6. Standby power consumption is measured at 180-230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 9.Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales.		EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C(@load 50%); EN61000-3-3; GB17625.1,GB17743, EAC TP TC 020			
DIMENSION  123.5*81.5*23mm (L*W*H)  PACKING  0.24Kg; 54pcs/15Kg/1.12CUFT  1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. 6. Standby power consumption is measured at 180-230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 9. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales.		EMC IMMUNITY				
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<ol> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>Efficiency is measured at 800mA/50V output set by DIP switch.</li> <li>Current ripple is measured 50%~100% of maximum voltage under rated power delivery.</li> <li>Standby power consumption is measured at 180-230VAC.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> <li>Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second.</li> <li>For more information, please contact with MEAN WELL sales.</li> </ol>		PACKING	0.24Kg; 54pcs/15Kg/1.12CUFT			
	NOTE					



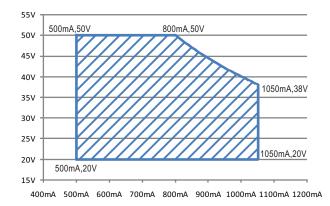
## ■ BLOCK DIAGRAM



## ■ DRIVING METHODS OF LED MODULE

# O LCM-40TW

For 40W application



## ■ DIP SWITCH TABLE

LCM-40TW is a multiple-stage constant power driver, selection of output current through DIP switch is exhibited below.

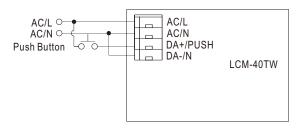
lo DIP S.W	1	2	3
500mA		ON	ON
300IIIA	ON	ON	ON
600mA			ON
OUUIIA	ON		ON
700mA(factory default)	ON	ON	
800mA		ON	
900mA	ON		
1050mA			

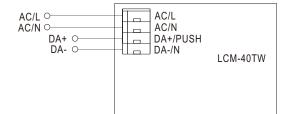
				l .	
Note: For more current	cotting	nlaaca	contac	+ 1/1/1//	calac
Note. For more current	Settilliq	,piease	Comac	il IVI V V S	Sales.

Status DIP S.W	4	5	Activatied Channel
Single-address DT6		ON	CH1
Dual-address DT6	ON	ON	CH1,CH2
Single-address DT8			CH1,CH2
(factory default)	ON		0111,0112

## ■ DIMMING OPERATION

#### ※ Output wiring diagram





#### ☆ PUSH dimming (primary side)

- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.
- The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

Action	Action duration		
Short Push	0.1~1s		
Double Click	Click twice in 1.5s		
Long Push	1.5~10s		

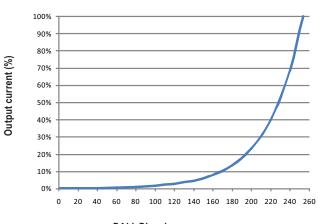
#### **Function**

Status	Output	Push button function
DT6 Single Address	CH1	Short Push: ON/OFF Double Click: go to maximum. Long Push: Dim up/down stop at max./min. level - with next push, direction change (up/down) - dim up possible even if when unit is in standby mode (dim off mode)
DT6 Dual Address	CH1,CH2	Short Push: ON/OFF Double Click: go to maximum. Long Push: Dim up+CCT cooler/Dim down+CCT warmer - dim up stop at maximum; dim down stop at min dim (not dim off) - with next push, up or down direction will change - dim up possible even if when unit is in standby mode (dim off mode)
DT8	CH1(C), CH2(W)	Short Push: ON/OFF Double Click: Switch between Dim control or CCT control mode Long Push: Dim up/down or CCT control - stop at max./min. level - with next push, direction change (up/down, warm/cold) - dim up possible even if when unit is in standby mode (dim off mode)

#### ☆ DALI interface(primary side; for DA2-Type)

- · Apply DALI signal between DA+ and DA-
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 0.2%.

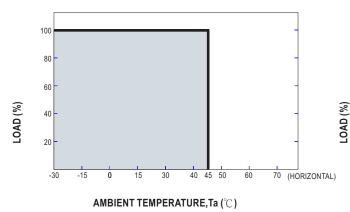


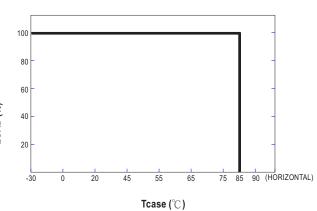


**DALI** Dimming curve

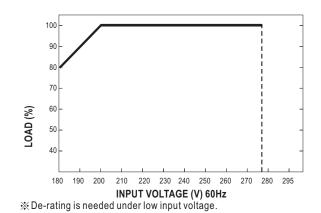
Application	Output channels	Output connections schematic diagram
Two independent output control(DT6)	Single or dual address (CH1 only in single address mode)	Output    CH1   CH2    +V   +V   -V1   -V2
Tunable white control(DT8)	Single address	output  CH1 CH2  +V +V -V1 -V2  2 C.w w.w

## ■ OUTPUT LOAD vs TEMPERATURE

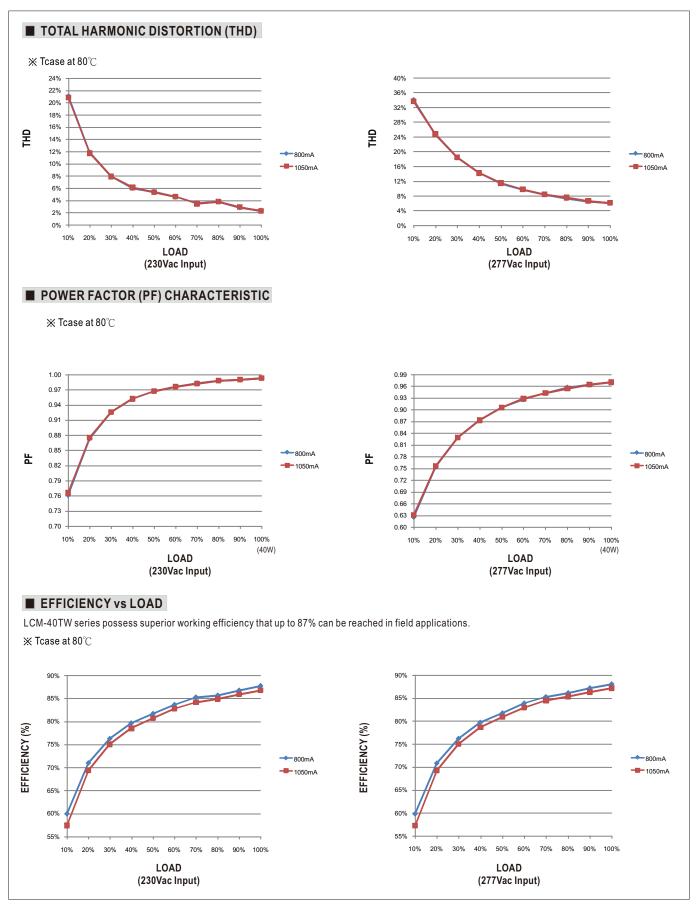




# ■ STATIC CHARACTERISTIC





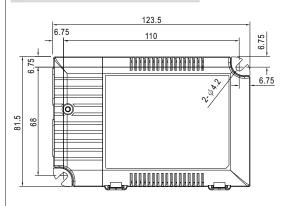


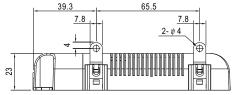
Case No.LCM-60A

Unit:mm



# ■ MECHANICAL SPECIFICATION



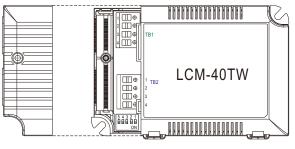


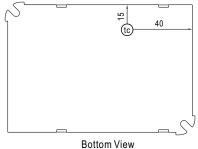
#### Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/L
2	AC/N
3	DA+/PUSH
4	DA-/N

# ※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	+V
3	-V1
4	-V2





• (tc): Max. Case Temperature

#### ■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html