

## Intelligent Tunable White LED Driver (Constant Current)

**Bluetooth**® • The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTRO. • Ultra-small, thin and light screwless end cap. DIM / CT C CB ETP III • Change the output current, fade time and other parameters on the NFC programmer or via the App, and sync the parameters to the driver. T-PWM • Set the output current down to 1mA. • With soft-on and fade-in dimming function, enhancing your visual comfort. • T-PWM™ Super depth dimming technology, dimming depth can reach 0.0001% Flicker Free The whole dimming process is flicker-free with high frequency exemption level. IEEE 1789 • Comply with the EU's ErP Directive, networked standby<0.5W. Dimmable: 1000000:1 - When there is no load, the output will be 0V to prevent damage to  $\mathsf{LEDs}$ due to poor contact. Overheat, over voltage, overload, short circuit protection and automatic recovery. • Suitable for Class | / || / ||| indoor light fixtures. • Normal service life can reach 100,000 hours. 414 Jul NFC•)) V • 5-year warranty (Rubycon capacitor)

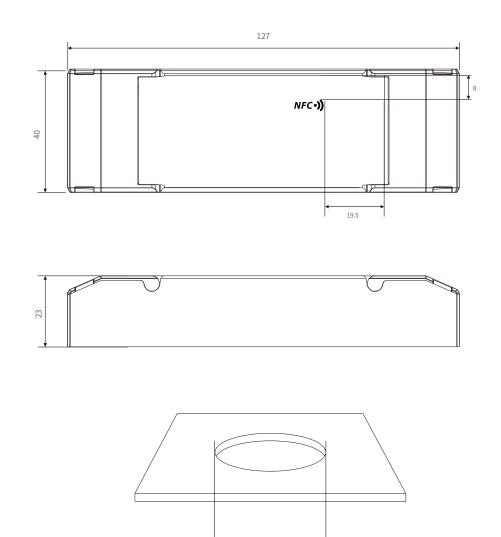
# Technical Specs

Output Type         Constant current           Dimming Interface         Bluetooth 5.0 SIG Mesh           Dutput Features         Didut Feature           Insulation Grade         IP20           Insulation Grade         Class II Suitable for class // II /III light fixtures]           Output Valtage         9-42Vdc           Maximum output voltage         469Vdc           Output Current Range         100-700mA           Output Current Range         0-100%, down to 0.0001%           LE Current Ringle         -34(Maximum current for non dimming state)           Current Accuracy         ±5%           PWM Frequency         <3600Hz           Co Civitage Range         100-240Vdc           AC Voltage Range         100-240Vdc           DC current range         0.09-0.25A           Input Voltage         115%a/C230Vac           Frequency         50/60Hz           Input Voltage         115%a/C230Vac           Power Factor         PF+0.95/115%ac, 40.134/230Vac           Power Factor         PF+0.95/15%ac, at full load]           Invals Current         Cold start 154/Test twidth=102us tested under 50% lpeak//230Vac           Power Factor         PF+0.95/15%ac, at full load]           Invals Current         Cold start 154/Test twidth=102us	Model		SE-20-1	00-700-W2B				
Homogenerate         Homogenerate         Homogenerate           Patchain of a local         Iolal           Patchain of a local         Columbitication of a local           Patchain of a local <t< th=""><th>Houet</th><th>Output Type</th><th></th><th></th><th></th></t<>	Houet	Output Type						
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Protects in and         PPP           Matcain Prace         Could Value         Second Value           Autom Stage         Second Value         Second Value           Autom Stage         Second Value         Second Value           Autom Stage Value         Second Value         Second Value           Autom Stage Value         Second Value         Second Value           Autom Stage Value         Second Value         Second Value           Autom Value         Second Value         Second Value           Figure Value         Second Value         Second Value	Features	-						
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Output Winger         9-0000           Output Winger         9-00000           Output Concert Reging         100-700000           Device Reging         10-700000           Device Reging         10-700000           Promeg Reging         10-700000           Promeg Reging         10-700000           Promeg Reging         10-700000000000000000000000000000000000								
Maximum control without without control								
Outpue Description         000000000000000000000000000000000000								
Origin Prese         Origin Prese         Origin Prese           0-100%, town to 0.001%								
Durning array biology down to 0.001%           Durning array biology down to 0.001%           Durnel Current Riggin down array for non-mining still           Durnel Current Riggin down array for non-mining still           Durnel Current Riggin down array for non-mining still           Biol Velaps Rings down array for non-mining still           Durnel Current Riggin down array for non-mining still           Durnel Current Riggin down array for non-mining still           Prover Factor Riggin down array for non-mining still           Regin for non-mining still         Regin for non-mining still         Regin								
IC Durne Recards         ISB         ISB<	OUTPUT							
Current According         43.00 ···································								
PMP frigue         PMP frigue         PMP frigue           A Voitage frage         100.24/b/- 			· · · · · · · · · · · · · · · · · · ·					
BC Waings Range         100.240V± reserve res								
A Voluge and particle in the second								
BC current range         E0% 25A           Frequency         50%27A           Frequency         50%27A           Bigs Current         40.24119ac, 41.342.200×           Efficiency (Tpc)         80.85270×6.41.01 Load, 27%48000×640 Lo1 Load           Efficiency (Tpc)         80.85270×6.41.01 Load, 27%48000×640 Lo1 Load           Efficiency (Tpc)         Editioncy (Tpc)           Endo Grant         Cod start LoT Editor to (dithone)           Moring Temperature         Cod start LoT Editor to (dithone)           Moring Temperature         140.92.70×10           Moring Temperature         2.995.78.1, noi-contenting           Temperature Coefficient         20.97.42.62.67.07           Moring Temperature         100.930×12.62.67.0           Temperature Coefficient         20.937.42.62.67.07           Moring Temperature         100.930×12.52.67.07           Protection         Adammatically protection           Adammatically account and and the adameted to 102.90.07.07.07.07.07.07.07.07.07.07.07.07.07								
Input Vision         SU/U           Fequency         SU/U           New Facor         PF-95"/VEV fac facil land/PC-92/23Vec fa								
Freguency         Set/UII Frequency           inpo Current         -0.23/UI Frequency         -0.23/UI Frequency           inport         -0.23/UI Frequency		-						
Inst Convert         Object Field         Object Field Process Proces Proces Proces Process Process Proces Proces Process Process Pr								
Image: Proceedings         Process Proces Process Process Process Process Proces Process Pro								
Efficiency [Tp]_1         84%3700m4dx full lastl. 87%850m4dx full.lastl.           Funds Current         Cold start SMTest width=100us tested under 50% lpeak/220%c           Amis Gurrent         Max. 0.24mA           Testage Current         Max. 0.24mA           Working Temperature         10 - 20 - 50% tr. 80% C           Stenge Temperature/Humidy         20 - 59% RH, nen-condensing           Temperature Coefficient         40.05%/CIO-50% C           Vibration         0.05%/CIO-50% C           Protection         Automatically concentrations           Overload Protection         Automatically concentrations           Automatically concentrations         Automatically concentrations           Stort Circue Protection         Automatically concentrations           Automatically concentrations         Automatically concentrations           Derivala Protection         Automatically concentrations           Stort Circue Protection         Automatically concentrations           Derivala Protection         Automatically concentrations           Stort Circue Protection         Automatically concentrations           Stort Circue Protection         Automatically concentrations           Automatically concentration         Automatically concentrations           Stort Circue Protection         Automatically concentration (ENEW Stort)								
Instab         Cold start 1s/rst twidth 102/us tested under 50% (pask)/230%           And Surge         Leksage Current         ta -20 - 50°C to -50°C to -50°C           Working Temperature         ta -20 - 50°C to -50°C to	INPUT	THD						
Instab         Cold start 1s/rst twidth 102/us tested under 50% (pask)/230%           And Surge         Leksage Current         ta -20 - 50°C to -50°C to -50°C           Working Temperature         ta -20 - 50°C to -50°C to		Efficiency (Typ.)						
Lakage Ourrent         Max. 0.24m           Working Humid Temperature         1a -20 - 55 ℃ L: 0 ℃           Working Humid?         20 - 38 ℃ L: 0 ∞ 0           Storage Temperature/Mumid9         -00 - 38 ℃ L: 0 ∞ 0           Temperature Code         40.38 ℃ L: 50 ℃           Overlag Protection         10-55 ∪: 2 ∪ 2 ∪ 2 ∪ 2 ∪ 2 ∪ 2 ∪ 2 ∪ 2 ∪ 2 ∪		Inrush Current						
SAFETY ENCIMENTARY         Use-120 - 50°C to 80°C           Working Temperature Working Humidity         40 - 50°C/10 - 55°RH           Temperature/Lumitidie         40 - 50°C/10 - 55°RH           Temperature/Lumitidie         40 - 50°C/10 - 55°RH           Temperature/Lumitidie         40 - 50°C/10 - 55°RH           Overload Protection         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover nome load is reduced           Overhad Protection         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover normal outp Overhal Protection           Short Circul Protection         Enter hiccound if the CPIC amportance - 50°C, automatically recover normal outp Overhal Protection           Short Circul Protection         Enter hiccound if abort circul brotection           Short Circul Protection         CC           Commany         ENtri Sicound           Circul Protection         CC           Circul Prote		Anti Surge						
Working Humidity         20 - 95%RH.non-candensing           Storage Temperature/Humidy         -40.96%C10-95%RH           Temperature Coefficient         40.03%/PCI0.59% C1           Temperature Coefficient         40.03%/PCI0.59% C1           Vibration         0.03%/PCI0.59% C1           Overhoad Protection         Automatically protects the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced           Overhoad Protection         Intelligenty adjust or turn of the current output if the PCB temperature + 10°C. When the PCB temperature + 90°C, automatically recover normal output Devovoltage Protection           Short Circuit Protection         Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically recover normal output in the PCB temperature + 10°C. When the PCB temperature + 90°C, automatically recover normal output in the PCB temperature + 10°C.           Short Circuit Protection         Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically recover normal output in the PCB temperature + 10°C.           Short Circuit Protection         Intelligenty adjust of turn of trecur model is field in Circuit Cours, and recover automatically recover automatically recover normal output in the PCB temperature + 10°C.           Short Circuit Protection         Intelligenty adjust of turn of trecur models.           Insulation Resistance         I/P - 0/P: 305%V10/S10W D/C2/S*C/70%RH           Circuit Circuit Protectint         G		Leakage Current	Max. 0.	24mA				
Environment         Sorget imperature Coefficient 40.93%/PCI0-95%RH 40.93%/PCI0-95%CH 10+30MH2, 20 12min/1cyte, 72 min for X, Y and Z axes respectively Vibration 0verbat Protection Overbat Protection Overbat Protection Overbat Protection Overbat Protection Short Circuit Protection		Working Temperature	ta: -20 ~ 50°C tc: 80°C					
Temperature Coefficient         40.03%/C[0.507C]           Vibration         10-500Hz, 20 12min/1cycle, 72 min tor X, Y and Z axes respectively           Overhead Protection         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced           Overhead Protection         Intelligenty adjust or turn off the current output if the PCB temperature 110°C. When the PCB temperature 40°C, automatically recover normal output overvoltage Protect the automatical protect model is not current output if the PCB temperature 40°C. Submatically protect in diverse intervoltage exceeds the no-load voltage. It can be recovered automatically           Short Circuit Protection         Enter hiccy model if short circuit accurs, and recover automatically           Withstand Voltage         (IP-0/P: 100MI/500VD/25°C/70%RH           Inculation Resistance         (ICC         China         GB19510.1, GB19510.14           CEC         European Union         EM1347.1, EM1347.2-13, EM22493         CE           CE         European Union         EM1347.1, EM1347.2-13, EM22493         CE           CE         European Union         EM1347.1, EM1347.2-13, EM22493         CE           RCM         Australia         AS61347.1, K51347.2-13, EM22493         CE           CEC         European Union         EM1347.1, EM1347.2-13, EM2349         CE           CEC         European Union         EM1347.1, EM1347.2-13, EM2349		Working Humidity	20 - 95%RH, non-condensing					
Wind         10-500Hz, 20 12min/1cyCl, 27 min for X Y and Z ares respective/           PROTECTION         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover normal outp 0 werheat Protection         Intelligently adjust of the one of the magerature 310°C. When the PCB temperature -30°C, automatically recover normal outp 0 werhout Protection           Normalization         Intelligently adjust of the one of the more data voltage. It can be recovered automatically 0 werhout Protection         Intelligently adjust of the one of the more data voltage. It can be recovered automatically 0 withstand Voltage           Withstand Voltage         1/P - O/P : JOMU/501VOC/25°C/70% RH Insulation Resistance         1/P - O/P : JOMU/501VOC/25°C/70% RH 0 Germany         E0619510.1, GB19510.14           Safety Standards         1/P - O/P : JOMU/501VOC/25°C/70% RH 1/V Germany         E061347.1, EX01347.2-13, EX02393           Safety Standards         1/P - O/P : JOMU/501VOC/25°C/70% RH 1/V Germany         E061347.1, EX01347.2-13, EX02393           Safety Standards         ECC         Clina         6619510.1, GB19510.14           CE         European Union         EX01347.1, EX01347.2-13           ROM         Australia         AS 51347.1, EX01347.2-13	ENVIRONMENT	Storage Temperature/Humidity						
Overload Protection         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced           Overload Protection         Intelligently adjust or turn of the current output if the PCB temperature. 40°C, automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically recover normal output down outgage exceeds the no-load voltage. It can be recovered automatically           Short Circuit Protection         Enter hiccup model if short circuit occurs, and recover automatically           Withstand Voltage         (I/P-0/P): 3750Vac           Insulation Resistance         (I/P-0/P): 100M/0500/DC/25°C/70%RH           CC         China         0819510.1,0819510.14           CE         European Union         EN61347-1,1801347-2-13, EN6324-2           Safety Standards         CE         European Union         EN61347-1,1801347-2-13           RCM         Australia         A561347-1,1801347-2-13         EN6294           ENCE         European Union         EN61347-1,1801347-2-13         EN6294           ULCA         Britain         ES EN61347-1, 185184         EN62924         EN6292           ULCA         Britain         ES EN61347-1, 185187         EN62923         EN62923 <th></th> <td>Temperature Coefficient</td> <td>±0.03%/</td> <td>′°C(0-50°C)</td> <td></td>		Temperature Coefficient	±0.03%/	′°C(0-50°C)				
Protection         Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature >40°C, automatically recover normal outp Overvoltage Protection           Short Circuit Protection         Enter hiccur mode if short Circuit output if the QCB temperature >110°C. When the PCB temperature >40°C, automatically recover normal output Short Circuit Protection           Withstand Voltage         U/P-O/P: 100V/0700/D25°C/70% RH           Insulation Resistance         U/P-O/P: 100V/0700/D25°C/70% RH           CCC         China         GB19510.1, GB19510.14           TUV         Germany         EN61347-1, EN61347-2-13           CBC         CDG Interes Tables         EC01347-1, EC01347-2-13           CE         European Union         EN61347-1, EC01347-2-13           EAC         Russia         EC01347-1, EC01347-2-13           EAC         Russia         EC01347-1, EC01347-2-13           EAC         Russia         EC01347-1, EC01347-2-13           EAC         Russia         EC01347-1, EC01347-2-13           EAC         Russia		Vibration						
PROTECTION         Ourvoitage Protection         Automatically protect the device when voitage exceeds the no-load voitage. It can be recovered automatically           Short Circuit Protection         Enter hiccup mode if short circuit occurs, and recover automatically           Withstand View         I/P -O/P: JTSW ac           Insulation Resistance         I/P -O/P: JTSW ac           CCC         China         OB19510.1, 0819510.14           TUV         Germany         EN61347-1, EN61347-2-13, EN62493           CB         CD Member States         IEC61347-1, IEC61347-2-13           CB         CD Member States         IEC61347-1, IEC61347-2-13           CB         EN F01347-1, EN61347-2-13, EN62384         EN61347-1, IEC61347-2-13           CM         Australia         A 501347-1, AS 14347-2-13, EN62384           ENC         RCM         Australia         A 501347-1, AS 14347-2-13, EN62384           UKCA         Britain         BS EN61347-1, IEC61347-2-13, EN62384           UKCA         Britain         BS EN61347-1, EN61347-2-13, EN62384           UKCA         Australia         A 501347-1, AS 14347-2-13, EN62384           UKCA         Britain         BS EN61347-1, EN61347-2-13, EN62384           UKCA         Britain         BS EN61347-1, EN61347-2-13, EN62384           UKCA         Britain		Overload Protection	Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced					
Overvoltage Protection         Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically           Short Circuit Protection         Enter hiccur pool of if short circuit occurs, and recover automatically           Insulation Resistance         1/P-0/P- 3750Vac           Insulation Resistance         1/P-0/P- 100M0/500VDC/25°C/70%RH           Vith Stand Voltage         CC         China         GB19510.1, GB19510.14           TUV         Germany         EN61347-1, EN61347-2-13         EN624394           CE         CC         China         CS147-1, EC61347-2-13           CE         CB         CS1437-1, EX61347-2-13         EN62347-1, EX61347-2-13           RCM         Australia         AS 61347-1, IS 61347-2-13, EN62384         EN661347-2-13           RCM         Rustralia         AS 61347-1, IS EN 61347-2-13, EN62384         EN661           WCKA         Britain         BS EN 61347-1, IS EN 61347-2-13, EN62384         EN61347-1, IS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, IS EN 61347-2-13, EN 62493         EN 61347-1, IS EN 61347-2-13, EN 62493           GUL         Caneda         CS CA 22, 2N 0, 2S 13         CUL         CUL           UKCA         Britain         BS EN 61347-1, IS EN 61347-2-13, EN 61347         EN 61347-2-13, EN 61347	PROTECTION	Overheat Protection	Intelligently adjust or turn off the current output if the PCB temperature >110°C. When the PCB temperature <90°C, automatically recover normal output					
Withstand Voltage         I/P-0/P:3750Vac           Insulation Resistance         I/P-0/P:100M0/500VDC/25°C/70%KH           Insulation Resistance         I/P-0/P:100M0/500VDC/25°C/70%KH           CCC         China         0B19510.1,0B19510.14           TUV         Germany         EN61347-1,EN61347-2-13,EN62493           CB         European Union         EN61347-1,EN61347-2-13           CB         European Union         EN61347-1,EN61347-2-13           RCM         Australia         A5 61347-1,EN61347-2-13           RCM         Australia         A5 61347-1,EN61347-2-13           RCM         Australia         A5 61347-1,EN61347-2-13           ENCC         Europe         EN61347-1,EN61347-2-13           ENCC         Europe         EN61347-1,EN61347-2-13           ENCC         Europe         EN61347-1,EN61347-2-13           UKCA         Britain         B1580[PARTY25E0]           BIS         India         IS 15805 [PARTY25E0]           BIS         India         IS 15805 [PARTY25E1]           CUL         Canada         CS AC22, 20, 20, 20, 13           UL         America         UL 8750           CCC         China         BST015, EN61000-3-2, EN61000-3-3, EN61547           EMC Emission <t< th=""><th>TROTECTION</th><td>Overvoltage Protection</td><td colspan="4">Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically</td></t<>	TROTECTION	Overvoltage Protection	Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically					
Insulation Resistance         I/P-0/P:100M0/500VDC/25*/70% RH           Insulation Resistance         I/P-0/P:100M0/500VDC/25*/70% RH           CCC         China         GB19510.1.6 GB19510.14           CCC         China         GB19510.1.6 GB19510.14           CCC         Commany         EN01347-1, EN01347-2-13, EN02493           CE         European Union         EN01347-1, EN01347-2-13, EN02384           CE         European Union         EN01347-2-13           EAC         Russia         IEC61347-1, IEC61347-2-13           EAC         Russia         IEC61347-2-13           EAC         Russia         IEC61347-2-13           EAC         Russia         IEC61347-2-13, EN02384           UKCA         Britain         BS EN 61347-1, IEC61347-2-13, EN02384           UKCA         Britain         IS 15885 [PART 2/SE 103           CUL         Canada         CSA 6222 NO 250 13           ULU         America         UL 8750           CUL         Canada         CSA 6222 NO 250 13           CUL         Canada         CSA 6222 NO 250 13           CUL         Canada         CSC 6247           CUL         Canada         ICE6493, IEC61507, EN1000-3-3, EN61547           CUL         Rustralia		Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically					
SAFETY Safety Standards CC		Withstand Voltage						
Safety Standards         TUV         Germany         EN61347-1, EN61347-2-13, EN62493           CB         CB Member States         IEC61347-2-13, EN62384           CE         European Union         EN61347-1, EN61347-2-13, EN62384           KC         Korea         KC01347-1, EC61347-2-13           EAC         Russia         IEC61347-2-13           ENC         Europe         EN61347-1, EN61347-2-13           CUC         RCM         Australia           AS 61347-1, EN61347-2-13         EN62347-2-13           ENC         Europe         EN61347-1, EN61347-2-13           CUC         RCM         Australia           BIS         India         IS 15885 [PART 2/SEC 13]           CUL         Canada         CSA C22, NO.250, 13           UL         America         UL 8750           UL         America         UL 8750           CEC         European Union         EN55015, EN61000-3-2, EN61507           CEA         Russia         IEC62493, IEC61547, EH5015           CEM         Australia         EN55015, EN81000-3-2, EN61000-3-3, EN61547           UKCA         Britian         BS EN EC55015, EN81000-3-2, EN61000-3-3, BS EN 61567           UKCA         Britain         BS EN EC55015, EN81000-3-2, EN61000-3-3, BS		Insulation Resistance		2:100MΩ/500VDC/25°C				
SAFETY & EMC         CC         CB member States         IEC61347-1, IEC61347-2.13           CE         European Union         EN01347-1, EN01347-2-13, EN02384           KC         Kcea         KC61347-1, IEC61347-2.13           EAC         Russia         IEC61347-1, IEC61347-2.13           RCM         Australia         AS 61347-1, IEC61347-2.13           ENC         Europe         EN01347-2.13, EN02384           UKCA         Britain         BS EN01347-2.13, EN02493           UKCA         Britain         BS EN01347-1, IEC01347-2.13, EN02493           UKCA         Britain         BS EN01347-1, IEC01347-2.13, EN02493           UKCA         Britain         EN50137, EN0100-2.2, EN01307-2.13           CE         European Union         EN50515, EN01000-3-2, EN0100-3-3, EN01547           CE         European Union         EN50515, EN01000-3-2, EN01000-3-3, EN01547           CE         European Union         EN50515, EN01000-3-3, EN01507           CC         China         EN50515, EN01000-3-3, EN01547           UKCA         Britain         EN50515,								
SAFETY & EMC         Safety Standards         CE         European Union         EN41347-2-13, EN42384           KC         Korea         KC61347-1, KC61347-2-13           EAC         Russia         IEC61347-1, KC61347-2-13           RCM         Austratia         Austratia           ENCC         Europe         EN61347-1, KS 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, SS EN 61347-2-13, EN62384           UKCA         Britain         BS EN 61547           CE         European Union         EN50505.           RC         Korea         KSC 9815, KSC 9547           EAC         Rus								
Safety Standards         KC         Korea         KC 6/1347-1, KC 6/1347-2-13           EAC         Russia         IEC 6/1347-1, IEC 6/1347-2-13           RCM         Australia         AS 6/1347-1, AS 6/1347-2-13           BC         Europe         EN6/1347-1, IEC 6/1347-2-13, EN6/2384           UKCA         Britain         BS EN 6/1347-1, BS EN 6/1347-2-13, BS EN 6/2493           BIS         India         IS 1588 (PARZ /SEC 13)           CUL         Canada         CSA C22, 2 NO.250.13           UL         America         UL 8750           CUL         Canada         GSA C22, 2 NO.250.13           UL         America         UL 8750           CCC         China         GB/117743, 6B17425.1           CCE         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC 6/2493, IEC 6/1547, EH50100-3-3, EN 6/1547           KCA         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC 6/2493, IEC 6/1547, EH50105           KCM         Australia         ENS5015, EN 6/1000-3-2, EN 6/1000-3-3, EN 6/1547           UL         America         VIC 2493, IEC 6/1547, EH50105           CUL         Canada         ICES-005           UL         America         FC C P								
SAFETY         Safety Standards         EAC         Russia         IEC61347-2-13           RCM         Australia         AS 61347-1, AS 61347-2-13         EN62037-2-13           SAFETY         ENCC         Europe         EN61347-1, EN61347-2-13, EN62384           UKCA         Britain         BS EN 61347-1, BS EN 61347-2-13, BS EN 62493           BIS         India         IS 15885 (PART 2/SEC 13)           CUL         Canada         CSA C22, 2N, 0.250, 13           UL         America         UL 8700           VL         America         UL 8700           CCC         China         68/717743, 6817625.1           CE         European Union         EN55015, EN61000-3-2, EN61000-3-3, EN61547           KC         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC62493, IEC61547, EH55015           RCM         Australia         EN55015, EN61000-3-2, EN61000-3-3, EN61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 6100-3-3, BS EN 61547           CUL         Canada         ICES-005           UL         America         FCC PART 158           EMC Immunity         EN6100-4-2,3,4,5,6,8,11, EN+1567           Flicker/Stroboscopic Effet         IEEE 1789         Meet IE		Safety Standards						
SAFETY & EMC         RCM         Australia         As 61347-1, AS 61347-2-13           B1         ENCC         Europe         EN61347-1, EN61347-2-13, EN62384           UKCA         BTtain         BS En61347-1, BS EN 61347-2-13, BS EN 62493           BIS         India         IS 15885 IPART 2/SEC 13)           CUL         Canada         CSA C22_2 NO.250.13           UL         America         UL 8750           UL         America         UL 8750           CCC         China         G9/117743, GB17625.1           CE         European Union         EN50515, EN61000-3-2, EN61000-3-3, EN61547           KC         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC62493, IEC61547, EH55015           RCM         Australia         EN55015, EN61000-3-2, EN61000-3-3, EN61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61500-3-3, BS EN 61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61500-3-3, BS EN 61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61500-3-3, BS EN 61547           UKCA         Britain         BS EN IEC 55015, BS EN I								
SAFETY & EMC         EMC         Europe         EM6/i347-1; EN6/i347-2-13; EN6/2384           Bis         India         BS EN 6/1347-1; BS EN 6/1347-2-13; BS EN 6/2493           Bis         India         IS ISB8B (PART 2/SEC 13)           CUL         Canada         CSA C22, 2 NO.250.13           UL         America         UL 875           EMC Emission         EC         European Union           EMC Emission         CC         China           EC         European Union         EN55015; EN61000-3-2; EN61000-3-3; EN61547           EAC         Russia         IEC62493; IEC61547; EH55015           CC         China         EBS EN IEC 55015; EN61000-3-2; EN61000-3-3; EN61547           UKCA         Britain         BS EN IEC 55015; EN 61000-3-3; EN61000-3-3; EN61547           UKCA         Britain         BS EN IEC 55015; BS EN IEC 61000-3-3; EN 61000-3-3; EN 61547           UKCA         Britain         BS EN IEC 55015; BS EN IEC 61000-3-3; EN 61000-3-3; EN 61547           UKCA         Britain         BS EN IEC 55015; BS EN IEC 61000-3-3; EN 61000-3-3; EN 61547           UKCA         Britain         BS EN IEC 55015; BS EN IEC 61000-3-3; EN 61000-3-3; EN 61547           UKCA         Britain         BS EN IEC 55015; BS EN IEC 61000-3-3; EN 61507           UKCA         Brout         COE								
SAFETY & EMC         UKCA         Britain         BS EN 61347-1, BS EN 61347-2-13, BS EN 62493           BIS         India         IS 15885 [PART 2/SEC 13]           CUL         Canada         CSA C22, 2 N0.250.13           UL         America         UL 8750           EMC Emission         CCC         China         GB/T17743, GB17625.1           CE         European Union         EN55015, EN61000-3-2, EN61000-3-3, EN61547           KC         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC62493, IEC61547, EH55015           RCM         Australia         EN55015, EN61000-3-2, EN61000-3-3, EN61547           UL         Canada         IEC5205           UL         Canada         IEC5205           UL         Canada         IEC5005           UL         America         FCC PART 15B           EMC Immunity         EN61002-4-2;3,4;5,6;8;11, EN547           VL         America         SUS (Kher shutdown by command)           No-load power consumption         <0,5W (Kher the lamp is not connected)           IEEE 1789         Meet IEEE 1789 standard/High frequency exemption level           Flicker/Stroboscopic Effect         IEEE 1789         SUK40.4           DF         Phase factor         DF								
&         BIS         India         IS 15885 [PART 2/SE 0.13]           CUL         Canada         CSA C22.2 N0.250.13           UL         America         UL 8750           CCC         China         GB/T17743, GB17625.1           CEE         European Union         EN55015, EN61000-3-2, EN61000-3-3, EN61547           CE         European Union         EN55015, EN61000-3-2, EN61000-3-3, EN61547           EAC         Russia         IEC62493, IEC61547, EH55015           RCM         Australia         EN55015, EN61000-3-2, EN61000-3-3, EN61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-3, BS EN 61000-3-3, BS EN 61547           CUL         Canada         ICES-005           UL         America         FC CP ART 15B           EMC Immunity         EN61000-4-2,3,4,5,6,8,11, EN61547           Voer Consumption         <0.5W [When the lamp is not connected]           No-load power consumption         <0.5W [When the lamp is not connected]           Flicker/Stroboscopic Effet         IEEE 178<	SAFETY							
EMC         Bis intuia         Discussion           CUL         Canada         CSA C22, 2 N0.250.13           UL         America         UL 8750           EMC Emission         CC         China         GB/T17743, GB17625.1           CE         European Union         EN55015, EN61000-3-2, EN61000-3-3, EN61547           KC         Korea         KSC 9815, KSC 9547           EAC         Russia         EN62639, IEC61547, EH55015           RCM         Austratia         EN55015, EN61000-3-2, EN61000-3-3, EN61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Canada         ICES-005           UL         America         FCC PART 15B           EMC Immunity         EN61000-4-2,3,4,5,6,8,11, EN-547           VL         America         FCC PART 15B           ErP         Power Consumption         No-load power consumption         <0.5W (When the lamp is not connected)           No-load power consumption         SEN IEC 1789 standard/High frequency exemption level            Ficker/Stroboscopic Effet         IEE 1789         Meet IEEE 1789 standard/High frequency exemption level           OF         Phase factor         DF >0.9         DF >0.9								
Image: Pression         UL         America         UL 8750           Image: Pression         CCC         China         GB/T17743, GB17625.1           Image: CCC         China         GB/T17743, GB17625.1           Image: CCC         China         GB/T17743, GB17625.1           Image: CCC         European Union         EN55015, EN61000-3-2, EN61000-3-3, EN61547           Image: CCC         KC         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC62493, IEC61547, EH55015           RCM         Australia         EN55015, EN61000-3-2, EN61000-3-3, EN61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, ES EN 61000-3-3, BS EN 61547           CUL         Canada         ICES-005           UL         America         FCC PART 15B           EMC Immunity         EN61000-4-2,3,4,5,6,8,11, EN61547           Metworked standby         <0.5W (After shutdown by command)           No-load power consumption         <0.5W (Men the lamp is not connected)           No-load power consumption         <0.5W (When the lamp is not connected)           REF         IEEE 1789         Meet IEEE 1789 standard/High frequency exemption level           GIE SVM         Pst LM<1.0, SVM<0.4         DF >0.9           OTHERS         Weight[								
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EMC Emission         KC         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC62493, IEC61547, EH55015           RCM         Australia         EN55015, EN61000-3-2, EN61000-3-3, EN61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           CUL         Canada         ICES-005           UL         America         FCC PART 15B           EMC Immunity         EN61000-4-2,3,4,5,6,8,11, EN-547           VUL         America         FCC PART 15B           Power Consumption         Networked standby         <0.5W (After shutdown by command)           No-load power consumption         <0.5W (When the lamp is not connected)           No-load power consumption         <0.5W (When the lamp is not connected)           Flicker/Stroboscopic Effert         IEEE 1789         Meet IEEE 1789 standard/High frequency exemption level           CIE SVM         Pst LM         DF o.9         Phase factor           Weight(N.W.]         105g±10         DF >0.9								
$\begin{tabular}{ c c c c c } \hline EAC & Russia & IEC62493, IEC61547, EH55015 \\ \hline RCM & Australia & EN55015, EN61000-3-2, EN61000-3-3, BSEN 61547 \\ \hline UKCA & Britain & BSEN IEC 55015, BSEN IEC 61000-3-2, BSEN 61000-3-3, BSEN 61547 \\ \hline UL & Canada & ICES-005 \\ \hline UL & America & FCC PART 15B \\ \hline RCM Immunity & EN6100-4-2, 3, 4, 5, 6, 8, 11, EN61547 \\ \hline Power Consumption & Networked standby & <0.5W [After shutdown by command] \\ \hline No-load power consumption & <0.5W [When the lamp is not connected] \\ \hline Flicker/Stroboscopic Effert & IEEE 1789 & Meet IEEE 1789 standard/High frequency exemption level \\ \hline CIE SVM & Pst LM<1.0, SVM<0.4 \\ \hline DF & Phase factor & DF>0.9 \\ \hline Weight[N.W.] & 105g±10g \\ \hline \end{tabular}$				1				
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$\begin{tabular}{ c c c c c } \hline $W$ is a bit of the state of the stat$				Australia				
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EMC Immunity         EN61000-4-2,3,4,5,6,8,11, EN61547           Power Consumption         Networked standby         <0.5W [After shutdown by command]           Power Consumption         No-load power consumption         <0.5W [When the lamp is not connected]           Flicker/Stroboscopic Effect         IEEE 1789         Meet IEEE 1789 standard/High frequency exemption level           DF         Phase factor         DF>0.9           Weight[N.W.]         105g±10g			CUL	Canada				
FrP         Networked standby         <0.5W (After shutdown by command)								
Power Consumption         No-load power consumption         <0.5W (When the lamp is not connected)		EMC Immunity						
FrP         No-load power consumption         <0.5W (When the lamp is not connected)	ErP		Networked standby		<0.5W (After shutdown by command)			
Flicker/Stroboscopic Effect         ClE SVM         Pst LM<1.0, SVM<0.4			No-load	power consumption	<0.5W (When the lamp is not connected)			
CIE SVM         Pst LM<1.0, SVM<0.4			IEEE 178	39	Meet IEEE 1789 standard/High frequency exemption level			
OTHERS Weight[N.W.] 105g±10g								
UTHERS		DF	Phase factor					
UTHERS	OTHERS	Weight(N.W.)	105g±10	lg				
	UTHERS	Dimensions	127×40×	23mm(L×W×H)				



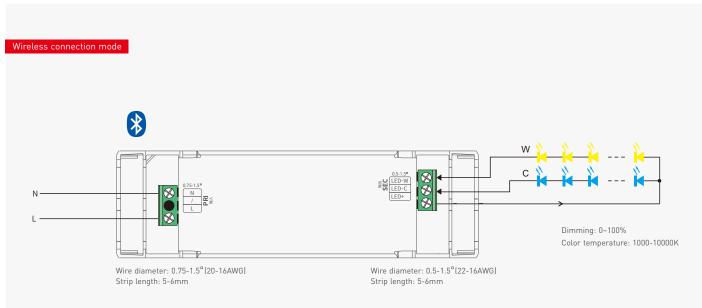
### Product Size

Unit: mm



Minimum hole size: φ48mm (1,89")

# Wiring Diagram



 $\star\,$  Access the network to control through App and Bluetooth



### Table of Typical Corresponding Parameters for Current

The typical 13 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 100-700mA adjustable in 1mA step							
Output Current	100mA	150mA	200mA	250mA	300mA	350mA	400mA
Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
Output Power	0.9-4.2W	1.35-6.3W	1.8-8.4W	2.25-10.5W	2.7-12.6W	3.15-14.7W	3.6-16.8W
			-	-		-	
Output Current	450mA	500mA	550mA	600mA	650mA	700mA	/
Output Voltage	9-42Vd c	9-40Vdc	9-37Vd c	9-34Vdc	9-31Vdc	9-28.5Vdc	/
Output Power	4.05-18.9W	4.5-20W	4.95-20.35W	5.4-20.4W	5.85-20.15W	6.3-19.95W	/

### Application Diagram of Protective Cover

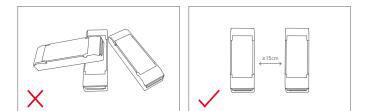


 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

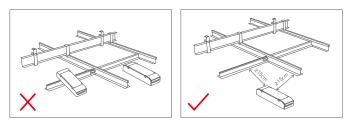


Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

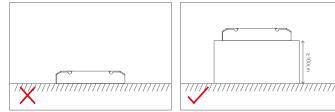
### **Installation Precautions**



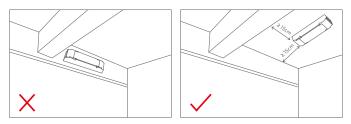
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



Please do not place the products near a large area of metal objects (such as metal stud ceilings). The distance between the product and the metal object should be ≥15cm so as to avoid signal interference.



Please do not place the products on the floor. The distance between the product and the floor should be >100 cm so as to avoid signal interference.



Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ≱15cm so as to avoid signal interference.

Note: The temperature within the installation area should be within the working temperature range of the products. Please do not install products inside LED fixtures to avoid temperature exceeding the working temperature that may affect the product lifetime.



# Use the NFC Lighting APP

Scan the QR code below with your mobile phone and follow the prompts to complete the APP installation (According to performance requirements, you need to use a NFC-capable Android phone, or an iphone 8 and later that are compatible with iOS 13 or higher).



\* Before you begin setting the parameters of the driver on the NFC programmer or via the APP, please make sure the driver is powered off.

#### Read/Write the LED driver

Use your NFC-capable phone to read the driver parameters, then set the output current, fade time, power-on status, other parameters. Save your settings and hold your phone close to the driver again, so the parameters can be easily written to the driver.

#### 1. Read the LED driver

On the APP home page, click [Read/Write LED driver], then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.

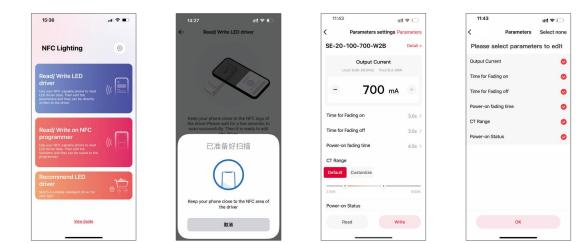


#### 2. Edit the parameters

Click [Parameter settings] to edit the advanced parameters, like output current, time for fading on/off, power-on fading time, power-on status, etc.

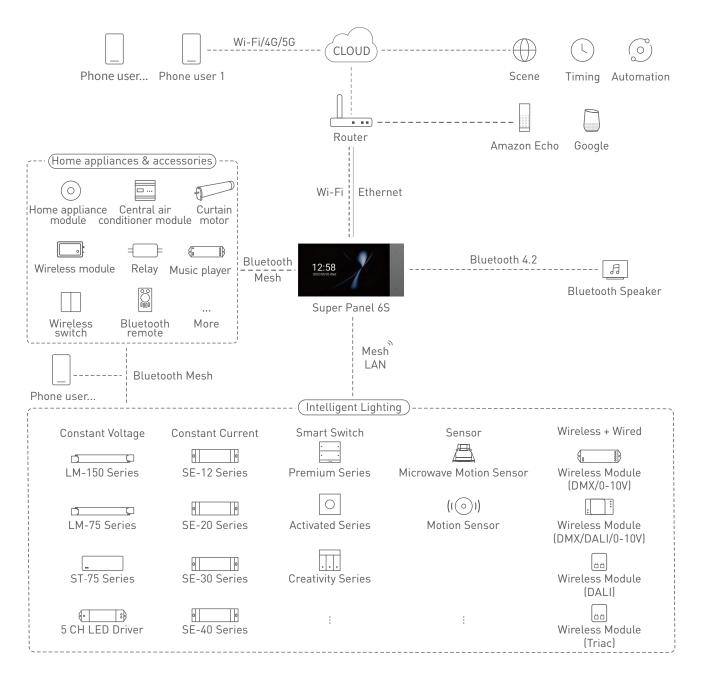
#### 3. Write to the driver

After completing the parameter settings, click [Write] in the upper right corner, and keep the programmer's sensing area close to the NFC logo of the driver, so the parameters can be written to the driver.





## Bluetooth System Diagram



### **Recommend Applications**

Phone



Bluetooth driver

2. Both App and remote can control the driver after connecting the remote to the driver with App.



Lamp

3. Both App and Super Panel 6S can control the driver simultaneously after connecting the Super Panel 6S to the driver with App. By connecting the Super Panel to network, you are allowed to control the driver, cloud scenes and automation remotely with App.



4. .....More applications of intelligent control are waiting for you to set up.



## Use with Bluetooth L-Home APP

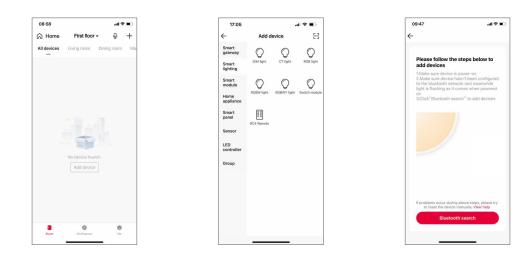
1. Register an account

The App is available on iOS or Android devices. Scan the QR code below with you mobile phone and follow the prompts to complete the App installation. Open the App to log in or register an account.



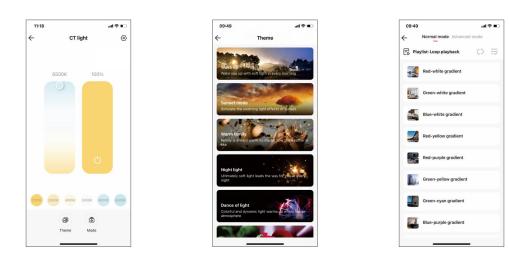
2. Paring instructions

Open the APP and create a home if you are a new user. Click "+" icon in the upper right corner and access the "Add Device" list, then follow the prompts to add the device. Pick "Smart lighting-CT light" from the list and follow the prompts to power on the device firstly. Make sure the device is not connected to the network. Then click "Bluetooth Search" and follow the prompts to add the device.



#### 3. Control interface settings

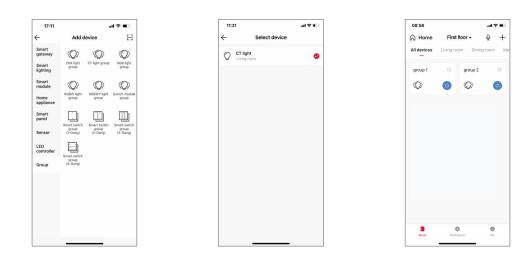
After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness and color temperature. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced modes. Customize dynamic modes to put you into a more colorful life.





#### 4. Light groups

Users are able to combine the same type of light fixtures into a group to control them simultaneously. Once you create the group, you can set the dim level and adjust the color temperature more easily. Pick "Group-CT light group" from the list . Follow the prompts to rename the group and click "Next" to pick the lights you are going to group together and click "Save".



#### 5. Advanced functions

This driver can be linked up with gateway function devices (such as LTECH Super Panel) to achieve the advanced functions from cloud scenes to automation.

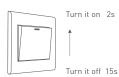


10:52		al 🕈 🕒
÷	New scene	Save
Scene name		Scene1 >
Select icon		
Perform act	ons below when scenes	are triggered
🕄 Add ac	ion	
-		



### Reset The Device (Reset to factory defaults)

Make sure the driver is well-connected to a lamp and the lamp is on, turn it off with the switch and after 15s turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times , reset the device to factory defaults successfully.

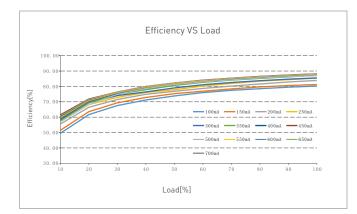


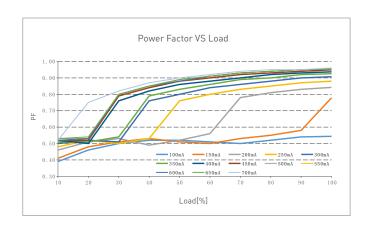
Under the driver being power-on

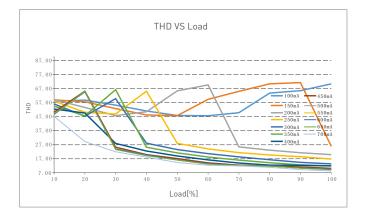
(Repeat 6 times)

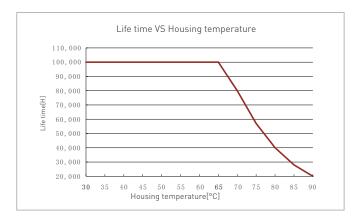


### **Relationship Diagrams**







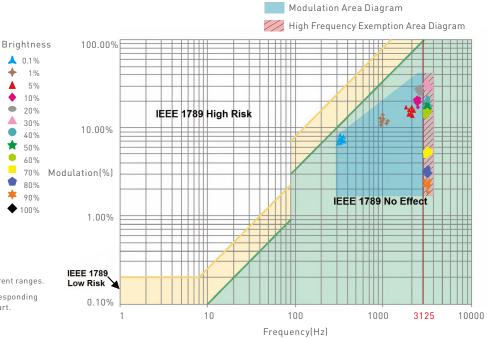


SE-20-100-700-W2B

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# Flicker Test Sheet

	IEEE 1789			
Limit of modulation in low risk area				
f ≤ 8Hz	0.2			
8Hz < <i>f</i> ≤ 90Hz	0.025 × f			
90Hz < <i>f</i> ≤ 1250Hz	0.08 × f			
f > 1250Hz	Exemption assessment			
Limit of modulation in no effect area				
f ≤ 10Hz	0.1			
10Hz < f ≤ 90Hz	0.01 × f			
90Hz < <i>f</i> ≼ 3125Hz	(0.08/2.5)× f			
f > 3125Hz	Exemption assessment (High frequency exemption)			

Marks in the right chart were tested results of different current ranges. The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.



# Packaging Specifications

Model	SE-20-100-700-W2B
Carton Dimensions	372×355×105mm(L×W×H)
Quantity	32 PCS/Layer; 2 Layers/Carton; 64 PCS/Carton
Weight	0.11 kg/PC; 7.4 kg±5%/Carton

# Packaging Image



Inner Packaging Box



Carton Packaging



## Transportation and Storage

#### 1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

### Attentions

- This product must be installed and adjusted by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices .
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- · When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.
- \* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

### Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.
- Warranty exclusions below:
- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.

2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.



# Update Log

Version	Updated Time	Update Content	Updated by
AO	20230828	Original version	Yang Weiling