

### Intelligent LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials from SAMSUNG/COVESTR0.
- Ultra-small, thin and light screwless end cap.
- Change the output current, fade time and other parameters on the NFC programmer or via the App, and sync the parameters to the driver.
- 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%

SE-20-100-700-W1B

- The whole dimming process is flicker-free with high frequency exemption level.
  Comply with the EU's ErP Directive, networked standby<0.5W.</li>
- When there is no load, the output will be OV to prevent damage to LEDs
- due to poor contact.

   Overheat, over voltage, overload, short circuit protection and
- automatic recovery.

Model

- Suitable for Class | / || / ||| indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor)

# Technical Specs



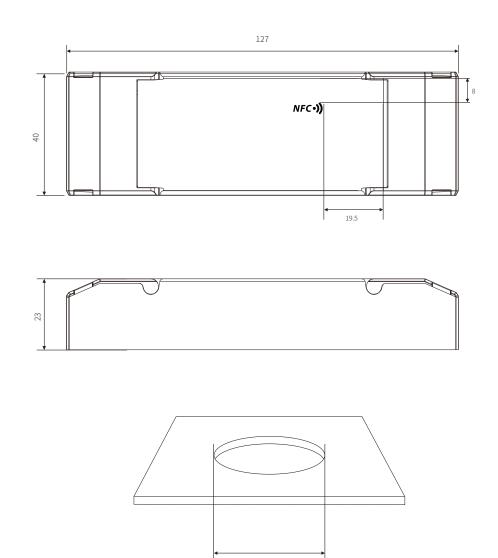


Interface         Oracle factor         Oracle factor           Operation plane         Decession 2000         Decession 2000         Decession 2000           Operation 2000         Decession 2000         Decession 2000         Decession 2000           Particip 2000         Decession 2000         Decession 2000         Decession 2000           Particip 2000         Decession 2000         Decession 2000         Decession 2000           Particip 2000         Decession 2000         Decession 2000         Decession 2000           Partio	Model		01 10						
Image: Probability         Image: Probability         Image: Probability           Probability         Construction         Constr		Output Type	Constant current						
Herr         Herr         Herr           Readable fields of the set of the		Dimming Interface	Bluetoo	th 5.0 SIG Mesh					
Process of a construction of a constructin of a construction of a construction of a construction	Features								
Induct of a construction	reatures								
Dispa Volage         P-CONTRA           Output Volage         CoNV 2000           Output Volage		Protection Grade							
Maximum control         Gity: Impartment           Organ Parene Reso         Impartment         Impartment           Organ Parene Reso         Organ Parene Reso         Organ Parene Reso         Impartment           Impartment         Control Reso         Signet Parene Reso         Impartment           Prover Records         Signet Parene Reso         Signet Parene Reso         Impartment           Prove Records         Control Reso         Organ Parene Reso         Impartment           Prove Records         Organ Parene Reso         Organ Parene Reso         Impartment           Prove Records         Organ Parene Reso         Organ Parene Reso         Impartment           Prove Records         Organ Parene Reso         Organ Parene Reso         Impartment           Prove Records         Organ Parene Reso         Organ Parene Reso         Impartment           Prove Records         Organ Parene Reso         Organ Parene Reso         Impartment         Impartment           Prove Records         Organ Parene Reso         Organ Parene Reso         Impartment         Impartment         Impartment           Prove Records         Organ Parene Reso         Organ Parene Reso         Impartment         Impartment         Impartment         Impartment           Prove Records         Orga		Insulation Grade							
Maximum control         Gity: Impartment           Organ Parene Reso         Impartment         Impartment           Organ Parene Reso         Organ Parene Reso         Organ Parene Reso         Organ Parene Reso           Impartment         Control Reso         Site         Impartment         Impartment           PAM Projector         Additional Site         Impartment         Impartment         Impartment           Impart National         Impartment		Output Voltage							
Index 0         Image         Image <thimage< th="">         Image         Image         &lt;</thimage<>									
Home Parener         Output Parener         Output Parener         Output Parener         Output Parener         Output Parener           Note Received         SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS		Maximum output voltage	≼48Vdc						
Dimma Bany         0.:00%, down to 0.00%           Curren Rogan         0.3500 - STAND-STANDARD           Curren Accessor         0.3500 - STANDARD           Recent Rogan         0.3500 - STANDARD         Recent Rogan </th <th></th> <th>Output Current Range</th> <th colspan="4">100-700mA</th>		Output Current Range	100-700mA						
Dimma Bany         0.:00%, down to 0.00%           Curren Rogan         0.3500 - STAND-STANDARD           Curren Accessor         0.3500 - STANDARD           Recent Rogan         0.3500 - STANDARD         Recent Rogan </th <th></th> <th>Output Power Range</th> <th colspan="5">0.9W-20W</th>		Output Power Range	0.9W-20W						
LP Current Rights         CRNM structure current for non-dimensing state           PMM Frequency         2.8%           PMM Frequency         2.8%           A Voluge Ringe         100-220%           100 Current range         0.89-023%           Frequency         5.800/18           100 Current range         0.89-023%           100 Current range         0.89-021%/200% (rt hall stated)           100 Current range         116 Current range           100 Current range         116 Current ra	OUTPUT								
Current Acad We Frquency         CAU           AVX MF Erguncy         CAU           AVX MF Erguncy         CAU           D Cvotage Range         100 2200 -           D Current Area         D 200 - 35 -           Participation         D 20									
PMM Frequency         ASUB1           NM Frequency         100-2006           C Voluge Range         100-2006           A Voluge Range         100-2006           Input Vision         100-2006           C Voluge Range         100-2006           Input Vision         100-2006           Input Vision         200-2004		LF Current Ripple	<3%(Ma	ximum current for non c	Jimming state)				
BC Wates Range         00:200%           UC Wates Range         00:200%           DC corrent range         00:9:3A           Prequency         00:9:3A           Prequency         00:200%           Prepuency         00:200%           Prepuency         00:200%           Prepuency         00:200%           Prepuency         Cod sert State Nation N		Current Accuracy	±5%						
BC Wates Range         00:200%           UC Wates Range         00:200%           DC corrent range         00:9:3A           Prequency         00:9:3A           Prequency         00:200%           Prepuency         00:200%           Prepuency         00:200%           Prepuency         00:200%           Prepuency         Cod sert State Nation N		PWM Frequency	≤3600H	<3600Hz					
<table-container><table-container><table-container><table-container><table-container><table-container></table-container></table-container></table-container></table-container></table-container></table-container>									
Incrumination         00-uprimination         Second Secon									
Input Nite         Input Nite         Imput Nite           Figal Second         5600/1000         Second			100-240Vac						
Field off         Projultation         Construction           Field Construction         Field Construction         Field Construction           Field Const		DC current range							
Field off         Projultation         Construction           Field Construction         Field Construction         Field Construction           Field Const		Input Voltage							
Image:									
Image: Notation in the standard sector of the standard sector sector of the standard sector of the standard secto			50/60Hz						
Image: Note:		Input Current	<0.25A/115Vac, <0.13A/230Vac						
Image: Note:		Power Factor							
	INPLIT								
Insust.runni         Cold SILT ISATE Modifie 1020: Exted under 59% Ipeak/230%c           Antisuge         Cold SILT ISATE Modifie 1020: Exted Under 59% Ipeak/230%c           Antisuge         Cold SILT ISATE Modifie 1020: Exted Under 59% Ipeak/230%c           Morking Imming         Cold SILT ISATE Modifie         Cold SILT ISATE Modifie           Morking Imming         Cold SILT ISATE Modifie         Cold SILT ISATE MODIFIE           Morking Imming         Cold SILT ISATE MODIFIE         Cold SILT ISATE MODIFIE           Morking Imming         Cold SILT ISATE MODIFIE         Cold SILT ISATE MODIFIE           Morking Imming         Cold SILT ISATE MODIFIE         Cold SILT ISATE MODIFIE           Morking Imming         Cold SILT ISATE MODIFIE         Cold SILT ISATE MODIFIE           Morking Imming         Cold SILT ISATE MODIFIE         Cold SILT ISATE MODIFIE           Morking Imming         Cold SILT ISATE MODIFIE         Cold SILT ISATE MODIFIE           Morking Imming         Uncold SILT ISATE MODIFIE         Cold SILT ISATE MODIFIE           Morking Imming         Uncold SILT ISATE MODIFIE         Sold SILT ISATE MODIFIE           Morking Imming         Uncold SILT ISATE MODIFIE         Sold SILT ISATE MODIFIE           Morking Imming         Uncold SILT ISATE MODIFIE         Sold SILT ISATE MODIFIE           Morking Imming         Uncold SILT ISATE MODI									
Anis Grage         L-N-2 ···································									
Lakage Durrent         Max. J. J. Normal Norma		Inrush Current	Cold start 15A(Test twidth=102us tested under 50%  peak]/230Vac						
Lakage Durnet         Max. J.×Im           Working Humidy         20J.×Im           Working Humidy         20J.×Im           Working Humidy         20J.×Im           Storage Emperature/Humidy         4.0J.×Im           Temperature Conduct         40.0.3%/IL-S.           Overhad Protection         10.50%/IL-S.           Overhad Protection         Intelligettr           Overhad Protection         Intelligettr           Overhad Protection         Intelligettr           Overhad Protection         Intelligettr           Shord Crout Protection         CCC           Shord Crout Protection         CCC           Shord Crout Protection         CCC           CV         CR           CV         CCC           CCC         CR		Anti Surge	L-N: 2KV						
Norking Temperature         ts:::::::::::::::::::::::::::::::::::		-	Max N	24mA					
Winding funniality         20 - 95% HL, non-condensing           ENVIRONMEN         4-0 - 80°C/10 - 95% RH           Temperature Coefficient         4003% *C01-50°C/10 - 95% RH           Temperature Coefficient         10:50°L/2 12min/10cjte, 7 min for X, Y and Z axes respectively           Overload Protechino         Intelligent Vanda Vaxes respectively           Overload Protechino         Intelligent Vanda Vaxes respectively           Overload Protechino         Intelligent Vanda Vaxes respectively           Short Circuit Protechino         Intelligent Vanda Vaxes respectively           Short Circuit Protechino         Intelligent Vanda Vaxes respectively           Isulation Resistance         I/P - /P - 3700 v2           Exception Vanda Van		-							
Environment         Strage Temperature Certificent         = 005%/CI0=55%CI           Temperature Certificent         = 005%/CI0=55%CI         = 005%/CI0=55%CI           Vibration         10=500Hz, 20 12min/lcycle, 72 min for X, Y and Z axes respectively           Overload Protection         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced           Overload Protection         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced           Overload Protection         Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover none load point           Short Crout Protection         Enter hiccur prote of short circur loccurs, and recover automatically           Withstand Voltage         I/P-O/P: 2750WAR           Insulation Resistance         I/P-O/P: 100M/S00VOC/25°C/70%KH           Insulation Resistance         I/P-O/P: 100M/S00VOC/25°C/70%KH           CB         CB Member States         IEC61347-12.13, Enc2340           CB         CB Member States         IEC61347-12.13, Enc2473           CB         European Union         EN101471, EN101347-2.13, Enc2344           VibCA         Roraia         AS 61347.1, ES 61347-2.13           VibCA         Britain         BS 55 IN62473           Bis         India         IS		Working Temperature							
Imparture Coefficien         4033F/CFC           Vertaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Short Cruciu Protection         Automatical Vertex Infe X y and Z axes respectively           Vertaal Protection         Automatical Vertex Infe X y and Z axes respectively           Vertaal Protection         Automatical Vertex Infe X y and Z axes respectively           Nistation Resistance         IP-0P : TUMX/000VD/2J > VEVXE           Insulation Resistance         IP-0P : TUMX/000VD/2J > VEVXE           Insulation Resistance         ICE Infe X Start X is Start X > Start X		Working Humidity	20 ~ 959	%RH, non-condensing					
Imparture Coefficien         4033F/CFC           Vertaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Overtaal Protection         Automatical Vertex Infe X y and Z axes respectively           Short Cruciu Protection         Automatical Vertex Infe X y and Z axes respectively           Vertaal Protection         Automatical Vertex Infe X y and Z axes respectively           Vertaal Protection         Automatical Vertex Infe X y and Z axes respectively           Nistation Resistance         IP-0P : TUMX/000VD/2J > VEVXE           Insulation Resistance         IP-0P : TUMX/000VD/2J > VEVXE           Insulation Resistance         ICE Infe X Start X is Start X > Start X	ENVIRONMENT	Storage Temperature/Humidity							
Vibra         0:500 + ::::::::::::::::::::::::::::::::									
Protection         Automatically protect the device when the load socceds 102% of the rated power. Automatically recover one load is reduced           Overelade Protection         Intelligently adjust or turn of the current output if the PCB temperature 310°C. When the PCB temperature 40°C, automatically recover on automatically           Short Circuit Protection         Enter licecup mode if short iccuits recurs and recover automatically           Withstand Voltage         I/P-0/P: 3750%c           Insulation Resistance         I/P-0/P: 3750%c           Insulation R									
Protection         Inteligently signs or turn off the current output if the PCB temperature s10°C. When the PCB temperature s0°C, automatically recover normal output           Short Circuit Protection         File         Automatically protect the device when voltage exceeds the n-ioad valtage. It can be recovered automatically           Withstand Voltage         I/P - //P - 375/Vac         Concord valtage. It can be recovered automatically           Insulation Resistance         I/P - //P - 375/Vac         Concord valtage. It can be recovered automatically           Insulation Resistance         I/C - //P -		Vibration	10-500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively						
Protection         Automatically protect the device witer workage exceeds the no-load voltage. It can be recovered automatically           Short Circuit Protection         Enter witer w		Overload Protection							
Protection         Automatically protect the device witer workage exceeds the no-load voltage. It can be recovered automatically           Short Circuit Protection         Enter witer w		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						
Short Circuit Protection         Enter iccup mode if short circuit circuit, and recover automatically           With and Voltage         (I/P-O/P: 2)750Vac           Insulation Resistance         (I/P-O/P: 2)750Vac           ENERGINAL         CCC         China         GB19510.1, GB19510.14           Insulation Resistance         CCC         China         GB19510.1, GB19510.14           TUV         Germany         EN01347-1, EN01347-2-13, En62493           CE         CEMember States         EICC1347.1, EN01347-2-13, En62384           CE         European Union         EN01347-1, EN01347-2-13, En62384           CE         European Union         EN01347-1, EN01347-2-13, En62384           ENCA         Russia         AS (1347-1, AS 61347-2-13, En62384           ENCA         Russia         ENE01347-1, EN61347-2-13, En62384           UKCA         Britain         BS EN 13147-1, EN61347-2-13, En62384           UKCA         Britain         ES EN 13147-1, EN61347-2-13, En62384	PROTECTION								
SAFETY & EMC         Withstand Voltage         I/P-O/P: 3750Vac           SAFETY & EMC         Insulation Resistance         I/P-O/P: 100M0/500VDC/25°C/70%RH           SAFETY & EMC         CC         China         GB19510.1, GB19510.14           TUV         Germany         ENA1347.1, ENA1347.2-13, EnA2493           CB         CB Member States         IEC61347-1, IEC61347-2-13           CE         European Union         ENA1347.1, ENA1347.2-13, EnA2384           KC         Korea         KC61347-7.13           RCM         Australia         AS 613477.1, IEC61347-2-13           RCM         Australia         AS 613477.1, EN61347-2-13, EnA2384           UKCA         Britain         BS EN 61347.7-13, EnA2384           UKCA         Britain         BS EN 61347.7-13, ENA2384           UL         CC         Clina           UL         CC         Clina           CUL         Canada         CSA22.2No.250.13           UL         America         UL8750           CE         European Union         En55015, EN4100-3-3, En61547           UL         America         IEC61347.2-13           EMC Emission         CC         China           EMC Emission         CCC         China           <		÷							
Insulation Resistance         I/P-O/P:100AD/500VDC/25°C/70%RH           Insulation Resistance         I/P-O/P:100AD/500VDC/25°C/70%RH           CCC         China         GB19510.1, GB1950.1, GB195		Short Circuit Protection	Enter hiccup mode if short circuit occurs, and recover automatically						
SAFETY		Withstand Voltage	I/P-0/F	2:3750Vac					
SAFETY		Insulation Resistance	I/P-0/F	: 100MO/500VDC/25°C	C/70%RH				
SAFETY &									
SAFETY & EMC         CC         CB Member States         IEC61347-1, IEC61347-2.13           SAFETY & EMC         Safety Standards         CE         European Union         EN51347-1, IEC61347-2.13           KC         Korea         KC61347-1, IEC61347-2.13         KC61347-1, IEC61347-2.13           RCM         Australia         As 61347-1, IEC61347-2.13           RCM         Australia         As 61347-1, IEC61347-2.13           UKCA         Britain         BSIS (PART)4, S61347-2.13, BS EN 62493           BIS         India         IS 15885 (PART)2/SE 0.13           UL         CC         Conada           CC         China         GB/117743, GB17625.1           CE         European Union         En55015, EN61000-3-2, EN61507           LC         Korea         KSC 9817, KSC 9817           EAC         Russia         IEC62429, IEC61547, IES5015           RCM         Australia         En55015, EN61000-3-2, EN61507           CE         European Union         En55015, EN61000-3-2, EN61507           CE         Russia         IEC62429, IEC61547, IES5015           RCM         Australia         En55015, EN61000-3-2, EN61500-3-3, En61547           UL         America         FCC PART 15B           UL         America		Safety Standards							
Safety Standards         CE         European Union         EN61347-1, EN61347-2-13, En62384           KC         Korea         KC61347-2-13           EAC         Russia         IEC61347-1, IEC61347-2-13           RCM         Australia         As61347-1, K61347-2-13           ENC         Russia         IEC61347-1, IEC61347-2-13, En62384           UKCA         Britain         BS EN 61347-1, SE N6 61347-2-13, BS EN 62493           IEC         Curope         EN61347-1, EN61347-2-13, BS EN 62493           IEC         Curope         EN61347-1, EN61347-2-13, BS EN 62493           IEC         Curope         EN61347-1, EN61347-2-13, BS EN 62493           IEC         Canada         CISC2.2.No.250.13           CUL         Canada         CISC2.2.No.250.13           UL         America         UL 8750           CE         European Union         En55015, EN61000-3-3, En61507           EMC Emission         CE         European Union           CE         European Union         En55015, EN61000-3-3, En61507           CE         Rusria         IEC62493, IEC61507, EN61000-3-3, En61507           CE         Rusria         En50515, EN61000-3-2, EN61000-3-3, EN61507           UKCA         Britain         BS EN 61327, IEC61507, EN61000-3-2, EN61000-3-3,			IUV	Germany	EN61347-1, EN61347-2-13, En62493				
K         K			СВ	CB Member States	IEC61347-1, IEC61347-2-13				
K         K			CE	European Union	EN61347-1, EN61347-2-13, En62384				
SAFETY         Safety Standards         EAC         Russia         IEC61347-1, IEC61347-2-13           RCM         Australia         AS 61347-1, AS 61347-2-13         Envolume           SAFETY         ENCC         Europe         EN61347-1, IEC61347-2-13, En62384           ENCC         Britain         BS EN 61347-1, SE N 61347-2-13, BS EN 62493           BIS         India         IS 15885 (PART 2/SEC 13)           CUL         Canada         CSA C22, 2 No 250.13           UL         America         UL 8750           CCC         CC         CC           UL         America         UL 8750           CEC         CCC         CC           CCE         European Union         En55015, EN61000-3-2, EN61000-3-3, En61547           CEC         CC         CC         CC           RCM         Australia         En55015, EN61000-3-2, EN61000-3-3, En61547           UCCA         Rcs         NCC 9871, IEC 05105           RCM         Australia         En55015, EN61000-3-2, EN51000-3-3, BS EN 61547           UL         CAnada         ICES-005           UL         CCE 0ART 15B         CUL           EMC Immunity         ENVer-2,3,4,5,6,8,11, EN-1547           No-laa= power consumption         <									
SAFETY & EMC         RCM         Australia         AS 61347-1, AS 61347-2-13, ENEC         Europe         EN61347-1, EN61347-2-13, EN62384           UKCA         Britain         BS EN61347-1, EN61347-2-13, EN62384         UKCA         Britain         BS EN61347-1, EN61347-2-13, BS EN 62493           EMC         Bits         India         IS 15886 [PART 2/SEC 13]         India         IS 15886 [PART 2/SEC 13]           UL         Canada         CSA C22.2N.02         UL         Canada         CSA C22.2N.03           UL         America         UL 8750         ISC         ENCOLO3-2, EN61000-3-3, En61547           EMC Emission         CE         European Union         En55015, EN61000-3-2, EN61000-3-3, En61547           KC         Kora         KSC 9815, KSC 9547           EAC         RCM         Australia         En55015, EN61000-3-2, EN61000-3-3, En61547           UKCA         Britain         BS EN IFC 65015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           CUL         Canada         ICES-005         IL         America           VKCA         Britain         BS EN IFC 65015, BS EN IEC 61000-3-2, EN 61000-3-3, BS EN 61547         IL           CUL         America         FCC pART 15B         ICES-005         IL         America           Fritain         EN E100000									
SAFETY & EMC         ENEC         Europe         ENS1347-1, ENS1347-2-13, EnS2384           UKCA         Britain         BS EN 61347-1, BS EN 61347-2-13, BS EN 62493           BIS         India         IS ISB8S [PART 2/SEC 13]           CUL         Canada         CSA 622.2 No.250.13           UL         America         UL 8750           UL         America         UL 8750           EMC Emission         CC         China         GB/117743, GB17625.1           CE         European Union         En55015, EN61000-3-2, EN61000-3-3, En61547           EAC         Russia         IEC62493, IEC61547, Eh55015           CA         Russia         IEC62493, IEC61547, Eh55015           RCM         Australia         En55015, EN61000-3-2, EN61000-3-3, BS EN 61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-3, BS EN 61547           UKCA         Britain         BS EN IEC 55015, BS EN 162 61000-3-3, BS EN 61547           CUL         Canada         ICES-005           UKCA         Britain         BS EN IEC 5015, BS EN 162 61000-3-2, BS EN 61000-3-3, BS EN 61547           CUL         Canada         ICES-005           UKCA         Britain         BS EN 61000-3-2, EN 61000-3-2, BS EN 61000-3-3, BS EN 61547           CUL         <			EAC	Russia	IEC61347-1, IEC61347-2-13				
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         CSC22, No.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         Austratia         En55015, EN61000-3-2, EN61000-3-3, En61547           UL         Cun         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 6100-3-3, BS EN 61547           UL         Austratia         En55015, EN61000-3-2, EN61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Austratia         En55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Austratia         En55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Cun         Cun         ICE5-005           UL         America         FCC pART 15B           Prower Consumption         No+low-+existandby         <0.5W (Men the lamp is not connected)           No-lower consumption         IEEE 1789			RCM	Australia	AS 61347-1, AS 61347-2-13				
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         CSC22, No.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         Austratia         En55015, EN61000-3-2, EN61000-3-3, En61547           UL         Cun         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 6100-3-3, BS EN 61547           UL         Austratia         En55015, EN61000-3-2, EN61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Austratia         En55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Austratia         En55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Cun         Cun         ICE5-005           UL         America         FCC pART 15B           Prower Consumption         No+low-+existandby         <0.5W (Men the lamp is not connected)           No-lower consumption         IEEE 1789			ENEC	Europe	EN61347-1, EN61347-2-13, En62384				
k         b. Italia         Distantia         Distantia         Distantia           EMC         A         A         Sistematica	SAFETY								
FMC         B13         Intuda         CSA C22, No.250 (13)           UL         Canada         CSA C22, No.250 (13)           UL         America         UL 8750           UL         CCC         China         GB/117743, GB17625.1           CCC         China         GB/117743, GB17625.1           CE         European Union         En55015, EN61000-3-2, EN61000-3-3, En61547           CE         European Union         En55015, EN61000-3-2, EN61000-3-3, En61547           CE         Russia         EE626493, IEC61547, Eh55015           EAC         Russia         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           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 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-F57           No-load power consumption         <0.5W (Mten the lamp is not connected)           No-load power consumption         <0.5W (Mten the lamp is not connected)           Ficker/Stroboscopic Effet<									
Free Parameter Paramete									
$ \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	ENIC		CUL	Canada	CSA C22.2 No.250.13				
$ \begin{tabular}{ c c c c } \hline $ CCC $ China $ $ GB/T17743, GB17625.1$ \\ \hline $ CE $ European Union $ En55015, EN61000-3-2, EN61000-3-3, En61547$ \\ \hline $ CE $ European Union $ En55015, EN61000-3-2, EN61000-3-3, En61547$ \\ \hline $ KC $ Korea $ KSC 9815, KSC 9547$ \\ \hline $ EAC $ Russia $ IEC62493, IEC61547, Eh55015$ \\ \hline $ RCM $ Australia $ En55015, EN61000-3-2, EN61000-3-3, En61547$ \\ \hline $ UKCA $ Britain $ BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547$ \\ \hline $ ULC $ America $ FCC pART 15B$ \\ \hline $ UL $ America $ FCC pART 15B$ \\ \hline $ UL $ America $ FCC pART 15B$ \\ \hline $ Power Consumption $ Vertwer consumption $ <0.5W [After shutdown by command]$ \\ \hline $ No-load $ pwer consumption $ <0.5W [When the lamp is not connected]$ \\ \hline $ Picker/Stroboscopic Effect $ IEE 178$ $ Meet IEEE 1789 standard/High frequency exemption level$ \\ \hline $ FIcker/Stroboscopic Effect $ IEE 178$ $ DF \u03c4 $ Post LM<1.0, $VM<0.4$ $ $ Post LM<1.0, $VM<0.4$ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $			UL	America	UL 8750				
Martine         CE         European Union         En55015, EN61000-3-2, EN61000-3-3, En61547           FMC Emission         KC         Korea         KSC 9815, KSC 9547           EAC         Russia         IEC62493, IEC61547, Eh55015           RCM         Australia         En55015, EN61000-3-2, EN61000-3-3, BS EN 61547           UKCA         Britain         BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547           UL         Canada         ICES-005           UL         America         FCC pART 15B           EMC Immunity         EN10U=V-2,3,4,5,6,8,11, EN=V=V           Power Consumption         -0.5W (After shutdown by command)           No-Io==Veer consumption         -0.5W (Mhen the lamp is not connected)           No-Io==Veer consumption         -0.5W (Mhen the lamp is not connected)           No-Io==Veer consumption         -0.5W (Mhen the lamp is not connected)           IEE 1789 standard/High frequency exemption level         EIEE 1789 standard/High frequency exemption level           FIERMER         Pest LM         DF > 0.9		EMC Emission	CCC	China	GB/T17743, GB17625.1				
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         EN10U-±-2,3,4,5,6,8,11, EN±547           VUL         America         FCC pART 15B           Power Consumption         Netw=t standby         <0.5W (After shutdown by command)           No-loa=ver consumption         <0.5W (Mhen the lamp is not connected)           No-loa=ver consumption         <0.5W (When the lamp is not connected)           Netw/Ferther         IEEE 1789 standard/High frequency exemption level           Ficker/Stroboscopic Effert         IEEE 1789 standard/High frequency exemption level           DF         Phas=tar         DF>0.9           OTHERS         Weight(N.W.]         105g±10=									
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           CUL         Canada         ICES-005           UL         America         FCC pART 15B           EMC Immunity         EN010U-2-2,3,4,5,6,8,11, EN-547           VIL         America         FCC pART 15B           Power Consumption         Networt-2,3,4,5,6,8,11, EN-547           No-Iour-Ver consumption         <0.5W (After shutdown by command)           No-Iour-Ver consumption         <0.5W (When the lamp is not connected)           No-Iour-Ver consumption         <0.5W (When the lamp is not connected)           No-Iour-Ver consumption         <0.5W (When the lamp is not connected)           No-Iour-Ver consumption         <0.5W (When the lamp is not connected)           IEEE 1789 standard/High frequency exemption level         IEEE 1789 standard/High frequency exemption level           IEE V         Pst LM         DF >0.9           OTHERS         Weight(N.W.]         105g±10-									
$\begin{tabular}{ c c c c } \hline RCM & Australia & En55015, EN61000-3-2, EN61000-3-3, En61547 \\ \hline UKCA & Britain & BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61500-3-3, BS EN 61547 \\ \hline UL & America & FCC pART 15B \\ \hline UL & America & FCC pART 15B \\ \hline IUL & America & FCC pART 15B \\ \hline IUL & America & FCC pART 15B \\ \hline IUL & America & FCC pART 15B \\ \hline IUL & America & FCC pART 15B \\ \hline IUL & America & FCC pART 15B \\ \hline IUL & America & FCC pART 15B \\ \hline IUL & IUL $			KC	Korea	KSC 9815, KSC 9547				
RCM         Australia         Ens5015, EN61000-3-2, EN61000-3-3, En61547           UKcA         Britain         BS EN IEC 5015, BS EN IEC 61000-3-2, BS EN 61547           CUL         Canada         ICES-005           UL         America         FCC pART 15B           FCP         Power Consumption         EN10U-2-2,3,4,5,6,8,11, EV-154           FCP         Network consumption         <0.50% (Ment he lamp is not connected)           No-twork consumption         <0.50% (Ment he lamp is not connected)           FCPR         IEEE 1789 standard/High frequency exemption level           FCPR         IEEE 1789 standard/High frequency exemption level           FCPR         Post Consumption         DF >0.9           OF         Past Image: Second S			EAC	Russia	IEC62493, IEC61547, Eh55015				
$\begin{tabular}{ c c c c } \hline $IVKCA$ & $$Pitain$ & $BSEN IEC $5015, BSEN IEC $1000-3-2, BSEN $61507-3.5, BSEN $61547$ \\ \hline $CUc$ $Canada$ & $ICE$-005$ \\ \hline $UL$ $Canada$ & $ICE$-005$ \\ \hline $UL$ & $America$ & $FCC $PART 15B$ \\ \hline $Vertica$ & $FCC $PART 15B$ \\ \hline $Vertica$ & $FCC $PART 15B$ \\ \hline $Vertica$ & $Vertica$ & $FCC $PART 15B$ \\ \hline $Vertica$ & $Vertica$ & $Vertica$ & $FCC $PART 15B$ \\ \hline $Vertica$ & $				Australia					
$\begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c } \hline \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$									
$\begin{tabular}{ c c c c } \hline \hline \begin{tabular}{ c c c c } \hline \hline \end{tabular} $									
EMC Immunity         EN6100-4-2,3,4,5,6,8,11, EN-54           Perform         Networked standby         <0.5W (After shutdown by command)           Perform         No-load power consumption         <0.5W (When the lamp is not connected)           Pricer/Stroboscopic Effer         IEEE 1789         Meet IEEE 1789 standard/High frequency exemption level           DF         Phase factor         DF >0.9           OTHERS         Weight[N.W.]         105g±10g									
Power Consumption         Networked standby         <0.5W (After shutdown by command)									
Power Consumption         No-load power consumption         <0.5W (When the lamp is not connected)		EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN6		61547				
Power Consumption         No-load power consumption         <0.5W (When the lamp is not connected)					<0.5W (After shutdown by command)				
ErP         IEEE 1789         Meet IEEE 1789 standard/High frequency exemption level           Flicker/Stroboscopic Effet         IEEE 1789         Meet IEEE 1789 standard/High frequency exemption level           DF         Phase factor         DF > 0.9           OTHERS         Weight[N.W.]         105g±10g		Power Consumption		,					
Flicker/Stroboscopic Effect         CIE SVM         Pst LM<1.0, SVM<0.4									
CIE SVM         Pst LM<1.0, SVM<0.4	ErP		IEEE 1789		Meet IEEE 1789 standard/High frequency exemption level				
DF         Phase factor         DF>0.9           OTHERS         Weight[N.W.]         105g±10g					Pst LM≤1.0,SVM≤0.4				
OTHERS Weight(N.W.) 105g±10g									
01HERS					UF #U.7				
Dimensions 127×40×23mm(L×W×H)	OTHERC	Weight(N.W.)	105g±10	)g					
	UTHERS	Dimensions	127×40×	23mm(L×W×H)					
				· ·					



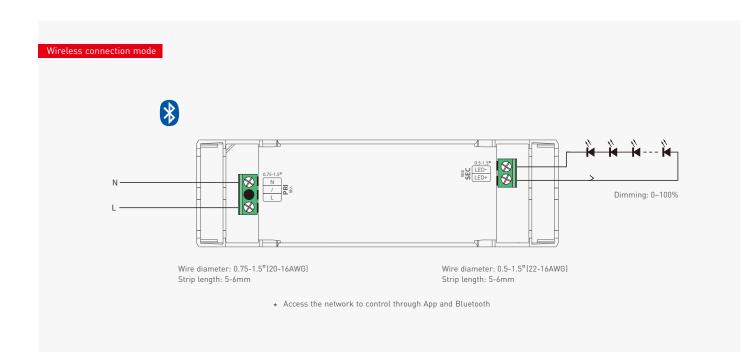
### Product Size

Unit: mm



Minimum hole size:  $\phi48mm$  (1,89")

Wiring Diagram





### 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	9-42Vdc	9-40Vdc	9-37Vdc	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

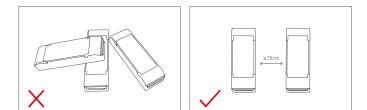


 Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.

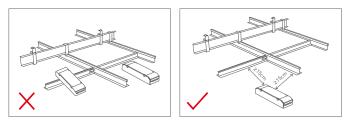


Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

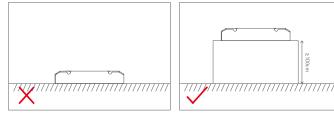
### **Installation Precautions**



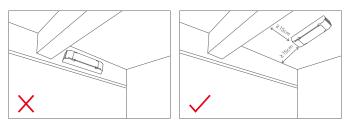
Please do not stack the products. The distance between two products should be >15cm so as not to affect heat dissipation and the lifespan of the products.



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.

3 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.

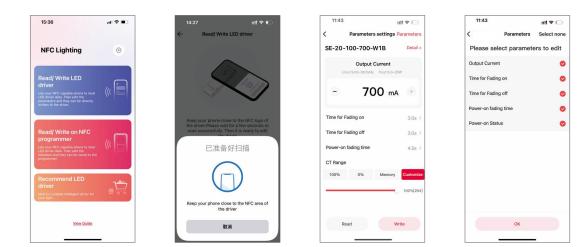


#### 2. Edit the parameters

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

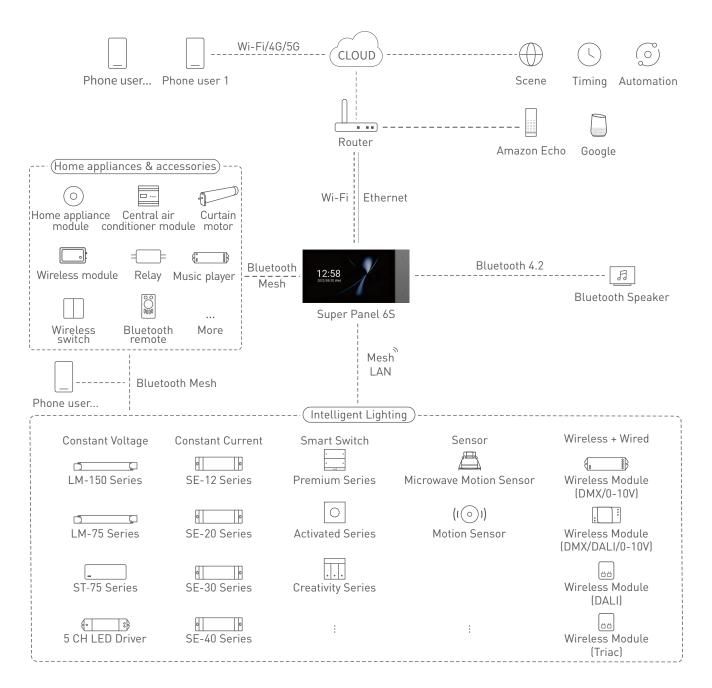
#### 3. Write to the driver

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.

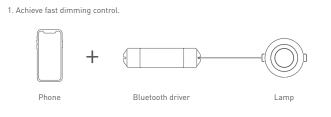




### Bluetooth System Diagram



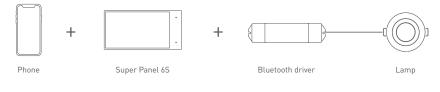
### **Recommend Applications**



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



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

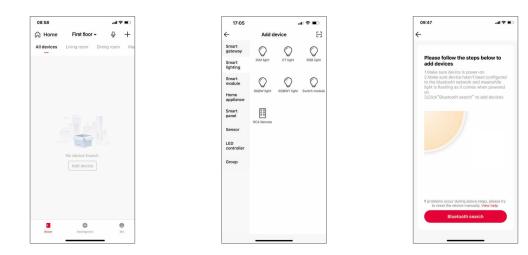
1. Register an account

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-DIM 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

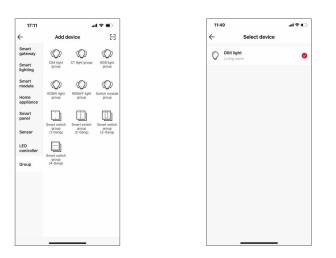
After pairing up your device, go to the control interface. You'll be able to achieve your desired lighting effects by changing brightness. Click "Theme" and you'll easily switch to multiple theme lighting effects with one tap. Click "Mode" and the App provides you editable advanced modes. Customize dynamic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

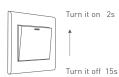


10:52		- <b>1</b> 🕈 In
÷	New scene	Save
Scene name		Scene1 >
Select icon		<u>ش</u>
Perform acti	ons below when scenes	are triggered
😌 Add act	ion	



### 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.

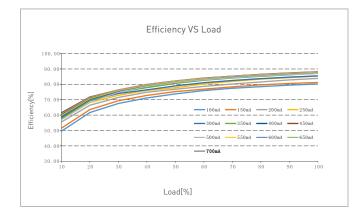


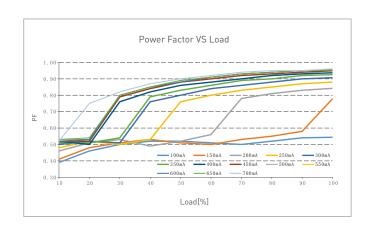
Under the driver being power-on

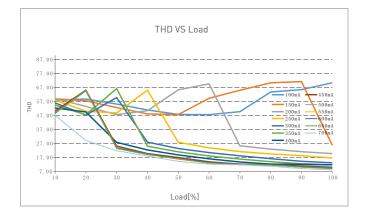
(Repeat 6 times)

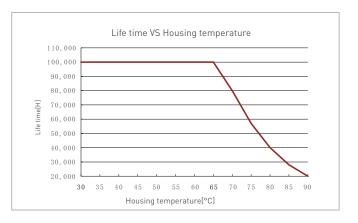


### **Relationship Diagrams**









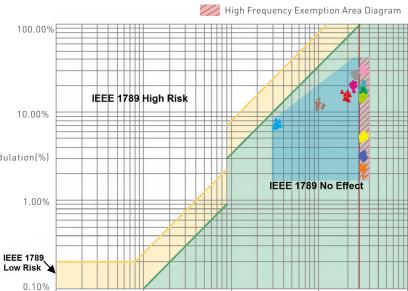
SE-20-100-700-W1B

### Flicker Test Sheet

	IEEE 178			
Limit of modulation in	low risk area			
Waveform frequency of optical output	limit (%)			
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				
<i>f</i> ≼ 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)			

**A** 0.1% + 1% ▲ ♦ 5% 10% 20%
 ▲ 30% 10.00% 40% ★ 50%
 ♦ 60%
 ▼70% 70% Modulation(%) 80% \* 90% • 100% 1.00%

Brightness



100

Frequency(Hz)

1000

3125

10000

10

Modulation Area Diagram

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.

1



### Packaging Specifications

Model	SE-20-100-700-W1B
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