

# Intelligent Tunable White LED Driver (Constant Current)

- Housing made from SAMSUNG/COVESTRO's V0 flame retardant PC materials
- Ultra small, thin and lightweight, screwless end cap.
- Change the dimming interface, output current, DALI address and other parameters via the APP.
- Set the DALI group and scene in the advanced DALI template via the APP.
- Adjustable output current with 1mA step.
- Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWM™ super deep dimming technology, 0.01% dimming depth.
- The whole dimming process is flicker-free with high frequency exemption level.
- Comply with the EU's ErP Directive, networked standby<0.5W.
- When there is no load, the output will be 0V to prevent damage to LEDs due to poor contact.
- Overheat, over voltage, overload, short circuit protection and automatic recovery.
- Suitable for Class I / II / III indoor light fixtures.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).







Flicker Free

Dimmable: 10000:1











Class 2 Erp 🗇 🖽 🖾





# **Technical Specs**

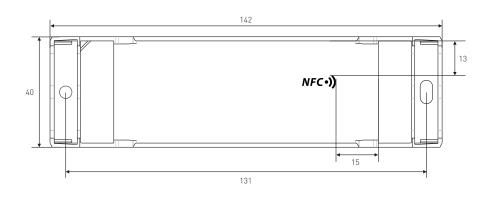
Model		SE-40-3	300-1050-W2D		SE-30-200-800-W2D					
	Output Type	Constar	t current							
	Dimming Interface	DALI-2 T6/DT8								
Features	Output Feature	Isolation								
	Protection Grade	IP20								
	Insulation Grade	Class II	(Suitable for class I/ II /	III light fixtures)						
	Output Voltage	Class II (Suitable for class I/ II /III light fixtures) 9-42Vdc								
OUTPUT	Maximum output voltage	<55Vdc <								
	Output Current Range	\$55VdC 200-800mA								
	Output Power Range	2.7W-40W 1.8W-30W								
	Dimming Range	2.7vv-40vv   1.6vv-30vv   0.01%								
	LF Current Ripple	<3%(Maximum current for non dimming state)								
	Current Accuracy	±5%								
	PWM Frequency									
	DC Voltage Range	≤3600Hz 120-250Vdc								
	AC Voltage Range									
	EoF;	100-240Vac								
			100%							
	Input Voltage	115Vac/230Vac								
	Frequency	50/60Hz								
	Input Current		.45A/115Vac, <0.22A/230Vac <0.34A/115Vac, <0.17A/230Vac <->0.95/115Vac (at full load), PF>0.9C/230Vac (at full load)							
INPUT	Power Factor			-r>v.7C/Z3UVAC (AT TUIL lOAD)						
	THD	THD<10%/230Vac, at full load								
	Efficiency (Typ.)	88% 87%								
	Inrush Current	Cold start 25A(Test twidth=130us tested under 50% lpeak)/230Vac								
	Anti Surge	L-N: 2KV								
	Leakage Current	Max. 0.5mA								
	Working Temperature		~ 45°C tc: 90°C							
	Working Humidity	20 ~ 95%RH, non-condensing								
NVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH								
	Temperature Coefficient	±0.03%/°C[0-50°C]								
		10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively								
	Vibration									
	Vibration Overload Protection			e when the load exceeds 102% of the rated pow	er. Automatically recover once load is reduced					
PROTECTION		Automa	tically protect the device	e when the load exceeds 102% of the rated pow						
PROTECTION	Overload Protection	Automa Intellige	tically protect the device ntly adjust or turn off the	e when the load exceeds 102% of the rated pow	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection	Automa Intellige Automa	tically protect the device ntly adjust or turn off the tically protect the device	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. \	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection	Automa Intellige Automa Enter hi	tically protect the device ntly adjust or turn off the tically protect the device	e when the load exceeds 102% of the rated pow e current output if the PCB temperature >110°C. V e when voltage exceeds the no-load voltage. It c	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection	Automa Intellige Automa Enter hi	tically protect the device ntly adjust or turn off the tically protect the device ccup mode if short circu	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. We when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Automa Intellige Automa Enter hi	tically protect the device ntly adjust or turn off the tically protect the device ccup mode if short circu 2: 3750Vac	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. We when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Automa Intellige Automa Enter hi I/P-O/F	tically protect the devicently adjust or turn off the tically protect the devicecup mode if short circup 3750Vac 2: 100ΜΩ/500VDC/25°(	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Automa Intellige Automa Enter hi I/P-0/F I/P-0/F	tically protect the devicently adjust or turn off the tically protect the device ccup mode if short circup 3750Vac 2: 3750Vac 2: 100ΜΩ/500VDC/25°0 China	e when the load exceeds 102% of the rated pow. c current output if the PCB temperature >110°C. V e when voltage exceeds the no-load voltage. It c uit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Automa Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV	tically protect the devicently adjust or turn off the tically protect the devicency mode if short circup mode if short circup 3750Vac 2: 3750Vac 2: 100ΜΩ/500VDC/25°C China Germany	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Verwhen voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB	tically protect the devicently adjust or turn off the tically protect the device ccup mode if short circo 2: 3750Vac 2: 100ΜΩ/500VDC/25°C China Germany	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Automa Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE	tically protect the devicently adjust or turn off the tically protect the device ccup mode if short circup 3750Vac P: 100MΩ/500VDC/25°C China Germany CB Member States European Union	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13	When the PCB temperature <90°C, automatically recover normal ou					
PROTECTION	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC	tically protect the devicently adjust or turn off the tically protect the devicecup mode if short circles 2: 3750Vac P: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13, EN62384  KC61347-1, KC61347-2-13	When the PCB temperature <90°C, automatically recover normal ou					
	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC	tically protect the devicently adjust or turn off the tically protect the devicecup mode if short circles 2: 3750Vac P: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, KC61347-2-13	When the PCB temperature <90°C, automatically recover normal ou					
SAFETY	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM	tically protect the devicently adjust or turn off the tically protect the devicecup mode if short circles 2:3750Vac 2:100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, KC61347-2-13  IEC61347-1, KC61347-2-13  AS 61347-1, AS 61347-2-13	When the PCB temperature <90°C, automatically recover normal out an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC	tically protect the devicently adjust or turn off the tically protect the device ccup mode if short circles 2: 3750Vac Print 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, KC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, AS 61347-2-13	When the PCB temperature <90°C, automatically recover normal out an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC UKCA	tically protect the devicently adjust or turn off the tically protect the devicecup mode if short circles 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, KC61347-2-13  IEC61347-1, KC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, EN61347-2-13, EN62384	When the PCB temperature <90°C, automatically recover normal out an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS	tically protect the devicintly adjust or turn off the tically protect the devicing mode if short circles and to some common of the tically protect the devicing mode if short circles and the tically short circles and the tical short circles and the tical short circles and tical short circles an	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384	When the PCB temperature <90°C, automatically recover normal out an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL	tically protect the devicintly adjust or turn off the tically protect the devicing protect prote	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  2./70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 61347-1, BS EN 61347-2-13,	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL	tically protect the devicintly adjust or turn off the tically protect the devicing mode if short circup mode if short circup? 3750Vac? 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  2/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  EN61347-1, SS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 61347-1, BS EN 61347-1, BS EN 61347-2-13, BS EN GS EN 61347-1, BS EN 61347-2-13, BS EN GS EN 61347-1, BS EN 61347-2-13, BS EN GS EN 61347-1, BS EN 61347-1, BS EN 61347-1, BS EN 61347-1, BS EN 61347-2-13, BS EN GS EN 61347-2-13, BS EN GS EN 61347-1, BS EN 61347-2-13, BS EN GS EN 61347-2-13, BS	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC	tically protect the devicintly adjust or turn off the tically protect the devicing protect prote	e when the load exceeds 102% of the rated power than the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  2/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN IS 15885 [PART 2/SEC 13]  CSA C22.2 NO.250.13  UL 8750  GB/T17743, GB17625.1	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE	tically protect the devicintly adjust or turn off the tically protect the devicing protect of the device pr	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  2/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, BS 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC	tically protect the devicintly adjust or turn off the tically protect the devicing protect of the device	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  2/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  CSA 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM CRCM CRCM CRCM CRCM CRCM CRCM CRC	tically protect the devicintly adjust or turn off the tically protect the devicing protect of the device p	e when the load exceeds 102% of the rated power when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  AS 61347-1, BS 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  IS 15885 [PART 2/SEC 13]  CSA C22.2 NO.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62497					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC	tically protect the devicintly adjust or turn off the tically protect the devicing protect of the device pro	e when the load exceeds 102% of the rated power when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  1070%RH  10819510.1, GB19510.14  10819510.1, GB19510.14  1081347-1, EN61347-2-13, EN62493  1081347-1, IEC61347-2-13  1081347-1, IEC61347-2-13  1081347-1, IEC61347-2-13  1081347-1, IEC61347-2-13  1081347-1, IEC61347-2-13  1081347-1, BS EN 61347-2-13  1081347-1, BS EN 61347-2-13, EN62384  1081347-1, EN61347-2-13  1081347-1, EN61347-2-1	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62493					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM UL CCC CE KC CE KC CCC CC	tically protect the devicintly adjust or turn off the tically protect the devicing protect	e when the load exceeds 102% of the rated power than the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  1.	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62497					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC CAC CCC CC CCC CCC CCC CCC CCC CCC C	tically protect the devicintly adjust or turn off the tically protect the devicing protect	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN  IS 15885 [PART 2/SEC 13]  CSA C22.2 N0.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-3, EN  BS EN IEC 55015, BS EN IEC 61000-3-2, B  ICES-005  FCC PART 15B	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62497					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC CUL UL CCC EAC CH CCC CE KC COC COC COC COC COC COC COC COC COC	tically protect the devicintly adjust or turn off the tically protect the devicing protect	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN  IS 15885 [PART 2/SEC 13]  CSA C22.2 N0.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-3, EN  BS EN IEC 55015, BS EN IEC 61000-3-2, B  ICES-005  FCC PART 15B	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62497					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE KC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC CAC CUL UL CCC CE KC CAC COC COC COC COC COC COC COC COC CO	tically protect the devicintly adjust or turn off the tically protect the devicing protect prote	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  EN61347-1, SS EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN  IS 15885 [PART 2/SEC 13]  CSA C22.2 N0.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, B  BS EN IEC 55015, BS EN IEC 61000-3-2, B  ICES-005  FCC PART 15B	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62497					
SAFETY & EMC	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission  EMC Immunity Power Consumption	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE CC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM UL CCC CI KC COL COL COL COL COL COL COL COL COL CO	tically protect the devicintly adjust or turn off the tically protect the devicing protect prote	e when the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  2./70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, BS EN 61347-2-13  EN61347-1, BS EN 61347-2-13  EN61347-1, BS EN 61347-2-13  EN61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 6155015, EN61000-3-2, EN61000-3-3, EN EN55015, EN61000-3-2, EN61000-3-2, BN EN IEC 55015, BS EN IEC 61000-3-2, BN IECE-055  FCC PART 15B  61547  <	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62493  I 61547  S EN 61000-3-3, BS EN 61547					
SAFETY &	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE CC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM UL CCC CE KC EAC RCM INTEL CCC IN	tically protect the devicintly adjust or turn off the tically protect the devicincular and the tically protect and the tically are the tically and the tically are the tically and the tically are tically and the tically and tically	e when the load exceeds 102% of the rated power than the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN IS 15885 [PART 2/SEC 13]  CSA C22.2 N0.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, B IS EN IEC 61000-3-2, B ICES-005  FCC PART 15B  61547  <0.5W [After shutdown by command]  <0.5W [When the lamp is not connected]  Meet IEEE 1789 standard/High frequency ex	When the PCB temperature <90°C, automatically recover normal out an be recovered automatically  I 62493  I 62493  I 61547  S EN 61000-3-3, BS EN 61547					
SAFETY & EMC	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission  EMC Immunity Power Consumption Flicker/Stroboscopic Effect	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE EAC RCM ENEC UKCA BIS CUL UL CCC EAC RCM UKCA CUL UL EN610C Networl No-load IEEE 17 CIE SVM	tically protect the devicintly adjust or turn off the tically protect the devicincup mode if short circle: 3750Vac 2: 3750Vac 2: 100M0/500VDC/25°( China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia Australia European Union Korea Russia	e when the load exceeds 102% of the rated power current output if the PCB temperature >110°C. Ver when voltage exceeds the no-load voltage. It cuit occurs, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN  IS 15885 [PART 2/SEC 13]  CSA C22.2 NO.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, B  SEN IEC 55015, BS EN IEC 61000-3-2, B  ICES-005  FCC PART 15B  61547  <0.5W [After shutdown by command]  <0.5W [When the lamp is not connected]  Meet IEEE 1789 standard/High frequency expect of the property of the propert	When the PCB temperature <90°C, automatically recover normal out an be recovered automatically  I 62493  I 62493  I 61547  S EN 61000-3-3, BS EN 61547					
SAFETY & EMC	Overload Protection Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission  EMC Immunity Power Consumption	Automa Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB CE CC EAC RCM ENEC UKCA BIS CUL UL CCC CE KC EAC RCM UL CCC CE KC EAC RCM INTEL CCC IN	tically protect the devicintly adjust or turn off the tically protect the devicing protect of the protect	e when the load exceeds 102% of the rated power than the load exceeds 102% of the rated power current output if the PCB temperature ≥110°C. Ver when voltage exceeds the no-load voltage. It cours, and recover automatically  C/70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13, EN62384  KC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN IS 15885 [PART 2/SEC 13]  CSA C22.2 N0.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, B IS EN IEC 61000-3-2, B ICES-005  FCC PART 15B  61547  <0.5W [After shutdown by command]  <0.5W [When the lamp is not connected]  Meet IEEE 1789 standard/High frequency ex	When the PCB temperature <90°C, automatically recover normal or an be recovered automatically  I 62493  I 62493  I 61547  S EN 61000-3-3, BS EN 61547					

1

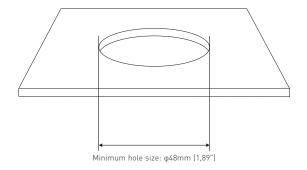


# **Product Size**

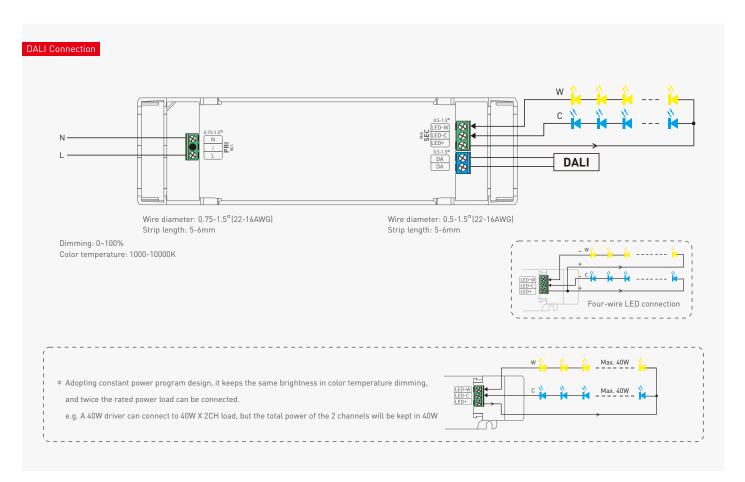
Unit: mm







# Wiring Diagram





# Table of Typical Corresponding Parameters for Current

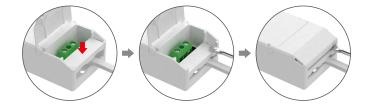
The typical 16 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 300-1050mA adjustable in 1mA step									
	Output Current	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
	Output Power	2.7-12.6W	3.15-14.7W	3.6-16.8W	4.05-18.9W	4.5-21W	4.95-23.1W	5.4-25.2W	5.85-27.3W
SE-40-300-1050-W2D									
	Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc	9-38Vdc
	Output Power	6.3-29.4W	6.75-31.5W	7.2-33.6W	7.65-35.7W	8.1-37.8W	8.54-39.9W	9-40W	9.45-40W

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 200-800mA adjustable in 1mA step									
	Output Current	200mA	250mA	300mA	350mA	400mA	450mA	500mA	550mA
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc
	Output Power	1.8-8.4W	2.25-10.5W	2.7-12.6W	3.15-14.7W	3.6-16.8W	4.05-18.9W	4.5-21W	4.95-23.1W
SE-30-200-800-W2D									
	Output Current	600mA	650mA	700mA	750mA	800mA	/	/	/
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-40Vdc	9-37.5Vdc	/	/	/
	Output Power	5.4-25.2W	5.85-27.3W	6.3-29.4W	6.75-30W	7.2-30W	/	/	/

# Application Diagram of Protective Cover

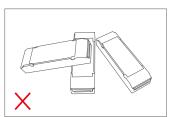


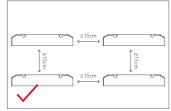
1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.



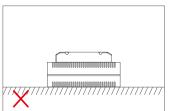
2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

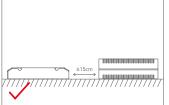
### **Installation Precautions**





Please do not stack the products. The distance between two products should be  $\geqslant$ 15cm so as not to affect heat dissipation or the lifetime of the products.





Please not place the products on power supplies. The distance between the product and the power supplies should be  $\geqslant$ 15cm so as not to affect heat dissipation or shorten the lifetime of the products.

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).



 $\textcolor{red}{\bigstar} \hspace{0.1cm} \textbf{Before you begin setting the parameters of the driver, please make sure \hspace{0.1cm} \textbf{the driver is powered off.}$ 

#### Read/Write the LED driver

Use your NFC-capable phone to read LED driver data, then edit the parameters and they can be directly written to the driver.

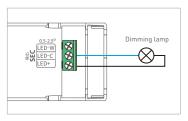
#### 1. Read the LED driver

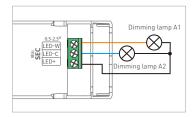
On the APP home page, click [Read/Write LED driver] , then keep the programmer's sensing area close to the NFC logo of the driver to read the driver parameters.

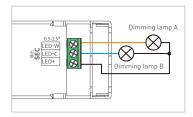


#### 2. Switch the dimming interface

On the page of "Edit parameters", click [Dimming interfaces] to switch to the needed dimming interface: DT8 CT (DT8 1 channel), DT6 CT (DT6 2 channels), DT6 DIM (1 address for 1 channel / 1 address for 2 channels).







1 address for 1 channel

1 address for 2 channels

2 addresses for 2 channels

### 3. Edit the parameters

Click 【Parameter settings】 to edit the advanced parameters, like output current, DALI address, dimming curve, advanced DALI template, etc.

## 4. 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.











#### **Advanced DALI template**

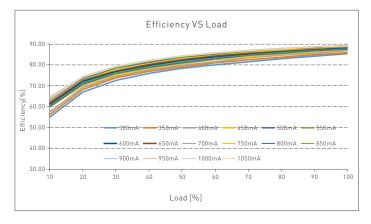
Integrate the functions of the DALI lighting system, edit the DALI group and lighting effects for scenes, then save them in the advanced template to achieve lighting programming. Setup page [for Read/Write LED driver]: Go to App home page — 【 ③ 】 icon in the top right — 【DALI template on pnone】.

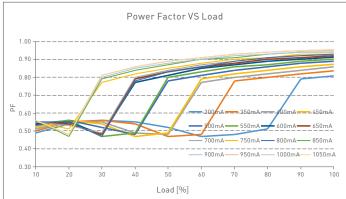


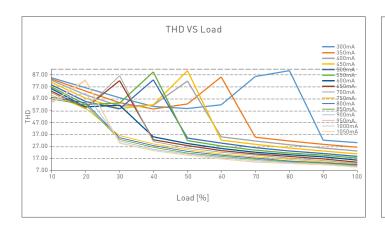


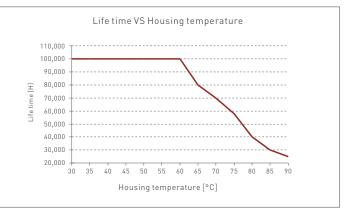


# Relationship Diagrams

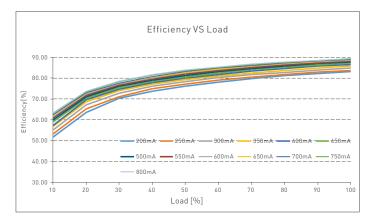


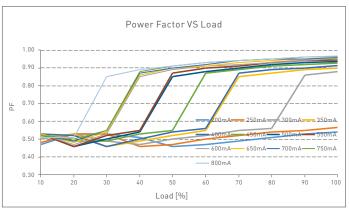


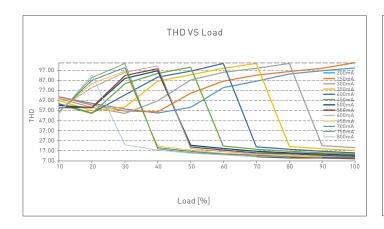


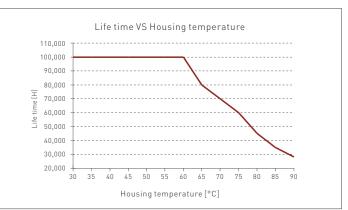


SE-40-300-1050-W2D









 ${\sf Frequency(Hz)}$ 

SE-30-200-800-W2D

#### Flicker Test Sheet Modulation Area Diagram High Frequency Exemption Area Diagram IEEE 1789 Brightness 100.00% **A** 0.1% Limit of modulation in low risk area • 5% 8Hz < f ≤ 90Hz 0.025 × f 10% 20% IEEE 1789 High Risk 30% 10.00% Limit of modulation in no effect area **★** 50% 60% • 70% Modulation(%) 80% 90% IEEE 1789 No Effect **1**00% 1.00% IEEE 1789 Marks in the right chart were tested results of different current ranges. Low Risk The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart. 0.10% 10 1000 10000



# **Packaging Specifications**

Model	SE-40-300-1050-W2D	SE-30-200-800-W2D
Carton Dimensions	320×275×106mm(L×W×H)	320×275×106mm(L×W×H)
Quantity	20 PCS/Layer; 2 Layers/Carton; 40 PCS/Carton	20 PCS/Layer; 2 Layers/Carton; 60 PCS/Carton
Weight	0.17 kg/PC; 7.6 kg±5%/Carton	0.15 kg/PC; 6.8 kg±5%/Carton

# Packaging Image







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

- Products shall be installed by qualified professionals.
- LTECH products are and not lightning proof 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 prolong the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- \* 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.
- $2.\,\mathsf{LTECH}\,\mathsf{has}\,\mathsf{the}\,\mathsf{right}\,\mathsf{to}\,\mathsf{amend}\,\mathsf{or}\,\mathsf{adjust}\,\mathsf{the}\,\mathsf{terms}\,\mathsf{of}\,\mathsf{this}\,\mathsf{warranty,}\,\mathsf{and}\,\mathsf{release}\,\mathsf{in}\,\mathsf{written}\,\mathsf{form}\,\mathsf{shall}\,\mathsf{prevail}.$

### FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

#### FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reason able protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

 $NOTE\ 2: Any\ changes\ or\ modifications\ to\ this\ unit\ not\ expressly\ approved\ by\ the\ party\ responsible\ for\ compliance\ could\ void\ the\ user's\ authority\ to\ operate\ the\ equipment.$ 



# **Update Log**

Version	Updated Time	Update Content	Updated by
Α0	2022.10.09	Original version	Liu Weili
A1	2023.07.28	Remove the description of the NFC programmer	Liu Weili

9