

# 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 output current, dimming mode and other parameters via the APP.
- Adjustable output current with 1mA step.
- $\bullet\,$  Automatically recognize 0-10V and 1-10V input signal.
- Ultra-low consumption of 0-10V ports < 0.05mA.
- $\bullet\,$  Soft-on and fade-in dimming function enhances your visual comfort.
- T-PWMTM 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.
- Normal service life can reach 100,000 hours.
- 5-year warranty (Rubycon capacitor).

4 in 1 dimming 0-10V 1-10V 10V PWM RX







Dimmable: 10000:1









CH CH CH CH CHAP351 FC [H] C C E ROHS C Class 2 Erp C B C





# **Technical Specs**

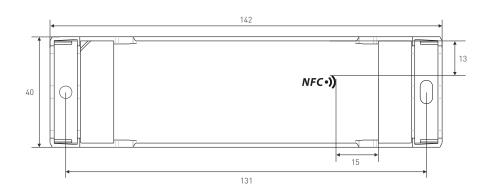
Model		SE-40-3	300-1050-W2A	SF-30-	-200-800-W2A				
	Output Type	Constant current							
	Dimming Interface	0-10V [1-10V, 10V PWM, RX]							
Features	Output Feature								
	Protection Grade	Isolation IP20							
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)							
	Output Voltage	9-42Vdc							
	Maximum output voltage								
ОИТРИТ		<55Vdc							
	Output Current Range	300-1050mA 200-800mA 2.7W-40W 1.8W-30W							
	Output Power Range	2.7W-40W   1.8W-30W   0~100%, down to 0.01%							
	Dimming Range LF Current Ripple	<3%(Maximum current for non dimming state)							
	Current Accuracy								
	PWM Frequency	±5% ≤3600Hz							
	. ,								
	DC Voltage Range	120-250							
	AC Voltage Range	100-240Vac							
	EoFi	100%	0001/						
	Input Voltage	115Vac/230Vac							
	Frequency	50/60Hz							
	Input Current								
	Power Factor	PF>0.95/115Vac (at full load), PF>0.9C/230Vac (at full load)							
INPUT	THD	THD≤10%/230Vac, at full load							
	Efficiency (Typ.)	88% 87%							
	Inrush Current			s tested under 50% Ipeak)/230Vac					
	Anti Surge	L-N: 2KV							
	Leakage Current	Max. 0.5mA							
	Working Temperature	ta: -20 ~ 45°C tc: 90°C							
	Working Humidity	20 ~ 95%RH, non-condensing							
ENVIRONMENT	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH							
	Temperature Coefficient	±0.03%/°C[0-50°C]							
	Vibration	10~500Hz, 2G 12min/1cycle, 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							
	Overtoad i rotection			when the todu exceeds 102 % of the rated power. Auton	natically recover once load is reduced				
DROTECTION	Overheat Protection		ntly adjust or turn off the	<u> </u>	•				
PROTECTION		Intellige		<u> </u>	PCB temperature <90°C, automatically recover normal outp				
PROTECTION	Overheat Protection	Intellige Automa	tically protect the device	current output if the PCB temperature ≥110°C. When the	PCB temperature <90°C, automatically recover normal outp				
PROTECTION	Overheat Protection Overvoltage Protection	Intellige Automa Enter hi	tically protect the device	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be rec	PCB temperature <90°C, automatically recover normal outp				
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection	Intellige Automa Enter hi	tically protect the device ccup mode if short circu	current output if the PCB temperature >110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically	PCB temperature <90°C, automatically recover normal outp				
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi	tically protect the device ccup mode if short circu 2: 3750Vac	current output if the PCB temperature >110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically	PCB temperature <90°C, automatically recover normal out				
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F	tically protect the device ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C	current output if the PCB temperature >110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH	PCB temperature <90°C, automatically recover normal out				
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F I/P-0/F	tically protect the device ccup mode if short circu 2: 3750Vac 2: 100ΜΩ/500VDC/25°C China	current output if the PCB temperature >110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14	PCB temperature <90°C, automatically recover normal outp				
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV	tically protect the device ccup mode if short circu 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany	current output if the PCB temperature >110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493	PCB temperature <90°C, automatically recover normal out				
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-O/F I/P-O/F CCC TUV CB	ctically protect the device ccup mode if short circus 2: 3750Vac 2: 100MΩ/500VDC/25°0 China Germany CB Member States	current output if the PCB temperature >110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13	PCB temperature <90°C, automatically recover normal out				
PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE	tically protect the device ccup mode if short circus 2: 3750Vac 2: 100MΩ/500VDC/25°0 China Germany CB Member States European Union	current output if the PCB temperature >110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13	PCB temperature <90°C, automatically recover normal out				
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PROTECTION	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC	tically protect the device ccup mode if short circle 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  KC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  EN61347-1, AS 61347-2-13  EN61347-1, AS 61347-2-13	PCB temperature <90°C, automatically recover normal out				
	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automa Enter hi I/P-0/F I/P-0/F CCC TUV CB CE KC EAC RCM ENEC UKCA	tically protect the device ccup mode if short circle 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, AS 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493	PCB temperature <90°C, automatically recover normal out				
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SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	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 device ccup mode if short circular street if 2.3750Vac P: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  EN61347-1, AS 61347-2-13, EN62384  BS EN 61347-1, BS 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  IS 15885 [PART 2/SEC 13]	PCB temperature <90°C, automatically recover normal out				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	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 device ccup mode if short circulors a 750Vac 2: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  EN61347-1, BS 61347-2-13  EN61347-1, BS 61347-2-13  EN61347-1, BN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  IS 15885 [PART 2/SEC 13]  CSA C22.2 NO.250.13	PCB temperature <90°C, automatically recover normal out				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	Intellige Automae 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 device ccup mode if short circulors a 750Vac 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, 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, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  IS 15885 [PART 2/SEC 13]  CSA C22.2 NO.250.13  UL 8750	PCB temperature <90°C, automatically recover normal out				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance	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 device ccup mode if short circulors and some content of the circulors and some content of the circulors and some circulors and	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  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, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547	PCB temperature <90°C, automatically recover normal out				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	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 device ccup mode if short circus 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, BS EN 61347-2-13  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, EN62384  BS C3222 NO.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN61547  KSC 9815, KSC 9547	PCB temperature <90°C, automatically recover normal out				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	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 device ccup mode if short circus 2: 3750Vac 2: 100MΩ/500VDC/25°C China Germany CB Member States European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea Russia	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  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, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547	PCB temperature <90°C, automatically recover normal out				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	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 CM CRCM CM CRCM CRCM CRCM CRCM CR	tically protect the device ccup mode if short circus 2: 3750Vac 2: 100MΩ/500VDC/25°C 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 Europe America China European Union Korea Russia Australia	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, EN61347-2-13  UB 85 EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-3, EN61547	PCB temperature <90°C, automatically recover normal out covered automatically				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	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 device ccup mode if short circulors and some content of the	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, EN61347-2-13  EN61347-1, 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  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, GB1347-2-13, EN62384  BS EN 61347-1, GB1347-2-13, EN62384  BS EN 61347-1, GB1347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, EN61347-2-13, EN62384  BS EN 61347-1, EN61347-2-13  EN61347-1, EN61347-2-13	PCB temperature <90°C, automatically recover normal out covered automatically				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	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 UKCA RCM UKCA	tically protect the device ccup mode if short circus 2: 3750Vac 2: 100MΩ/500VDC/25°C 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 Europe America China European Union Korea Russia Australia	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be recit occurs, and recover automatically  /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, EN61347-2-13  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  EN61347-1, EN61347-2-13  UESEN 61347-1, EN61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-3, EN61547  BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 610	PCB temperature <90°C, automatically recover normal out covered automatically				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	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 CUL UL CUL UL CUL UL	tically protect the device ccup mode if short circup: 3750Vac 2: 100M0/500VDC/25°C China Germany CB Member States European Union Korea Australia Europe Britain India Canada America China European Union Korea Russia Australia Europe Britain India Canada America China European Union Korea European Union Korea Australia European Union Korea Russia Australia European Union Korea Russia Australia Britain Canada	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, KC61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, BS EN 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, BS EN 610  ICES-005  FCC PART 15B	PCB temperature <90°C, automatically recover normal out covered automatically				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission	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 CUL UL CCC CE KC EAC RCM ENEC UL UL CCC CE KC EAC RCM UKCA ENEC UL UL CCC CE KC EAC RCM UKCA ENEC EAC RCM UKCA ENEC EAC RCM UKCA ENEC EAC RCM UKCA CUL UL EN610C	tically protect the device ccup mode if short circup: 3750Vac 2: 100M0/500VDC/25°C 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 Australia Britain Canada America China European Union Korea Russia Australia Britain Canada America China Canada America Canada America Canada America Canada America Canada America Canada America Canada Canad	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, KC61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, BS EN 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, BS EN 610  ICES-005  FCC PART 15B	PCB temperature <90°C, automatically recover normal out covered automatically				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance Safety Standards	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 UKCA UL CCC CE KC EAC RCM UKCA RCM UL CCC RCM RCM RCM ROM ROM ROM ROM ROM ROM ROM ROM ROM RO	tically protect the device ccup mode if short circulary common and circular common and circular common and circular circ	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, BS 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, BS EN 610 ICES-005  FCC PART 15B  1547  <0.5W [After shutdown by command]	PCB temperature <90°C, automatically recover normal out covered automatically				
SAFETY & EMC	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission  EMC Immunity Power Consumption	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 UKCA CUL UL CCC CE KC EAC RCM UKCA CUL UL CCC CO	tically protect the device ccup mode if short circus 2:3750Vac 2:100M0/500VDC/25°C 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 Australia Britain Canada America China Canada Australia Britain Canada Australia Britain Canada America 10-4-2,3,4,5,6,8,11, EN Ked standby	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  EN61347-1, BS 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, EN62384  BS EN 61347-1, EN61347-2-13, EN62384  BS EN 61347-1, EN61347-2-13  CSA C22.2 NO.250.13  UL 8750  GB/T17743, GB17625.1  EN55015, EN61000-3-2, EN61000-3-3, EN61547  BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 610  ICES-005  FCC PART 15B  11547  <0.5W [When the lamp is not connected]	PCB temperature <90°C, automatically recover normal outstookered automatically  000-3-3, BS EN 61547				
SAFETY &	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission	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 UKCA CUL UL CCC INCO EAC INCO INCO INCO INCO INCO INCO INCO INC	tically protect the device ccup mode if short circus 2:3750Vac 2:100M0/500VDC/25°C 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 Europe India Canada America China European Union Korea Russia Australia Britain Canada America O-4-2,3,4,5,6,8,11, EN Ked standby I power consumption 89	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /70%RH  GB19510.1, GB19510.14  EN61347-1, EN61347-2-13, EN62493  IEC61347-1, IEC61347-2-13  EN61347-1, KC61347-2-13  EN61347-1, KC61347-2-13  IEC61347-1, IEC61347-2-13  IEC61347-1, IEC61347-2-13  AS 61347-1, AS 61347-2-13  EN61347-1, BS EN 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, BS EN 610100-3-2, BS EN 610100-3-3, BS EN 610100-3-3-3, BS EN 610100-3-3, BS EN 610100-3-3-3,	PCB temperature <90°C, automatically recover normal outrovered automatically  000-3-3, BS EN 61547				
SAFETY & EMC	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission  EMC Immunity Power Consumption  Flicker/Stroboscopic Effect	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 UKCA BIS CUL UL CCC CE KC EAC RCM UKCA INTEL CCC CE CE CE CO	tically protect the device ccup mode if short circulary protect the device ccup mode if short circulars and continuate the circular and continuate the circular and continuate the circular and continuate the circular and circul	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  EN61347-1, BS 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, BS EN 6101 (ICES-005)  FCC PART 15B  1547  <0.5W [After shutdown by command]  <0.5W [When the lamp is not connected]  Meet IEEE 1789 standard/High frequency exemption  Pst LM≤1.0, SVM<0.4	PCB temperature <90°C, automatically recover normal outstookered automatically  000-3-3, BS EN 61547				
SAFETY & EMC	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission  EMC Immunity Power Consumption  Flicker/Stroboscopic Effect DF	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 UKCA CUL UL CCC CE CE CO CE CO CE CO CE CO	tically protect the device ccup mode if short circulary common circular states are common com	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  EN61347-1, IEC61347-2-13  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 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, BS EN 61010 (CES-005)  FCC PART 15B  1547  <0.5W [After shutdown by command]  <0.5W [When the lamp is not connected]  Meet IEEE 1789 standard/High frequency exemption  Pst LM<1.0, SVM<0.4	PCB temperature <90°C, automatically recover normal outscovered automatically  000-3-3, BS EN 61547				
SAFETY & EMC	Overheat Protection Overvoltage Protection Short Circuit Protection Withstand Voltage Insulation Resistance  Safety Standards  EMC Emission  EMC Immunity Power Consumption  Flicker/Stroboscopic Effect	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 UKCA CUL UL CCC CE CE CO CE CO CE CO CE CO	tically protect the device ccup mode if short circulary common circular states are common com	current output if the PCB temperature ≥110°C. When the when voltage exceeds the no-load voltage. It can be red it occurs, and recover automatically  /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  IEC61347-1, IEC61347-2-13  AS 61347-1, IEC61347-2-13  EN61347-1, BS 61347-2-13  EN61347-1, EN61347-2-13, EN62384  BS EN 61347-1, BS EN 61347-2-13, BS EN 62493  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, EN61547  KSC 9815, KSC 9547  IEC62493, IEC61547, EH55015  EN55015, EN61000-3-2, EN61000-3-2, BS EN 6101 (ICES-005)  FCC PART 15B  1547  <0.5W [After shutdown by command]  <0.5W [When the lamp is not connected]  Meet IEEE 1789 standard/High frequency exemption  Pst LM≤1.0, SVM<0.4	PCB temperature <90°C, automatically recover normal out covered automatically  000-3-3, BS EN 61547				

1

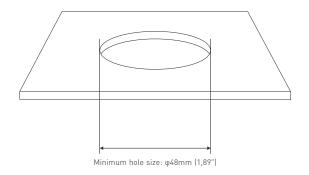


## **Product Size**

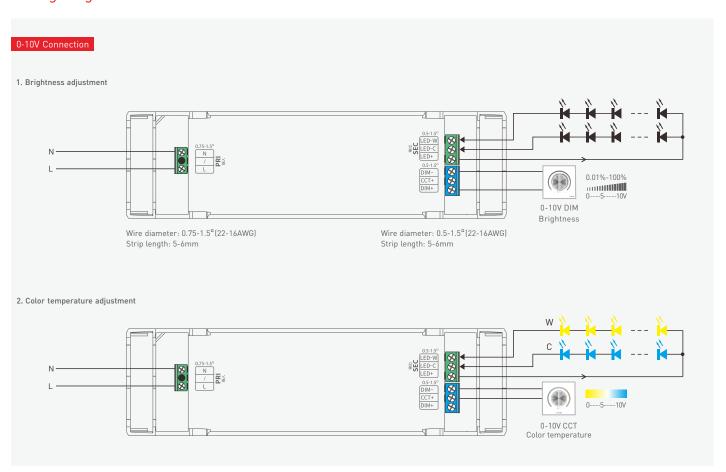
Unit: mm





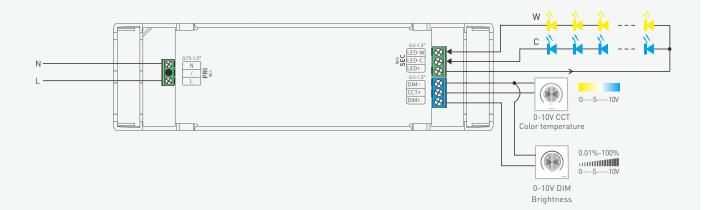


# Wiring Diagram

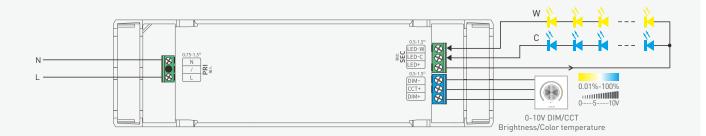




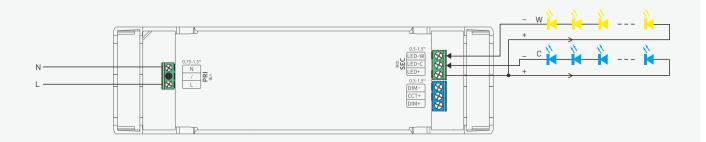
### 3. Brightness and color temperature adjustment respective



#### 4. Brightness and color temperature adjustment simultaneous $% \left( 1\right) =\left( 1\right) \left( 1\right)$

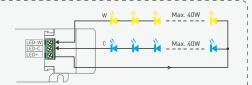


### Four-wire LED connection



\* Adopting constant power program design, it keeps the same brightness in color temperature dimming, twice the rated power load can be connected.

40 W driver, 40 W X 2CH load can be connected, the total power of the 2 channels will be kept in 40 W.





# Table of Typical Corresponding Parameters for Current

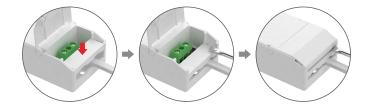
The typical 16 current data sets below are for reference when selecting LED fixture models. More current levels can be set by NFC using mobile APP with 300-1050mA adjustable in 1mA step									
	Output Current	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA
	Output Voltage	9-42Vdc	9-42Vdc	9-42Vdc	9-42Vdc	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-W2A									
	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 da	ita sets below are f	or reference when	selecting LED fixt	ure models. More	current levels can	be set by NFC usin	g mobile APP with	200-800mA adjust	able 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-W2A									
	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

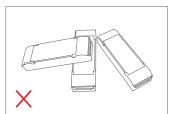


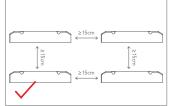
1. Put the head of a screwdriver on the side of the housing to pry up both the protective cover and wire fixing board. Then remove the wire fixing board and connect to the wires as wiring diagram shows.



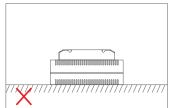
2. Install the wire fixing board and press it down. Then snap on the protective cover while pressing the wire fixing board with a small flat-head screwdriver

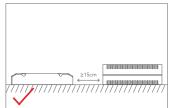
## **Installation Precautions**





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  $\geqslant 15$ cm 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).



\* Before you begin setting the parameters of the driver, please make sure 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. Edit the parameters

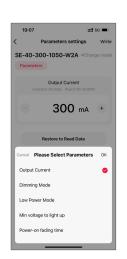
 $\textbf{Click [Parameter settings]} \ \ to \ edit \ the \ advanced \ parameters, \ like \ output \ current, \ dimming \ mode, \ low \ power \ mode, \ etc.$ 

#### 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.



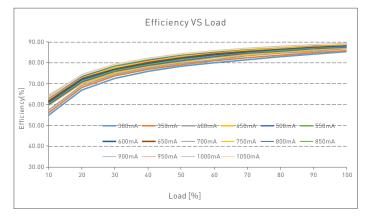


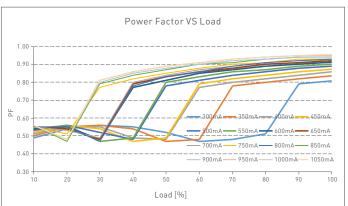


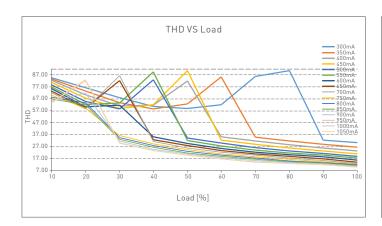


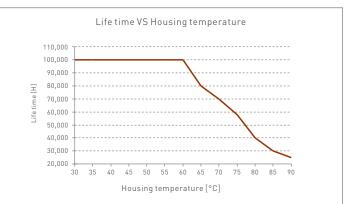


## Relationship Diagrams

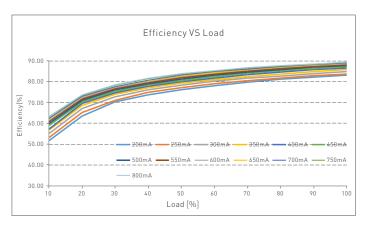


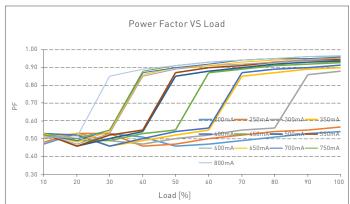


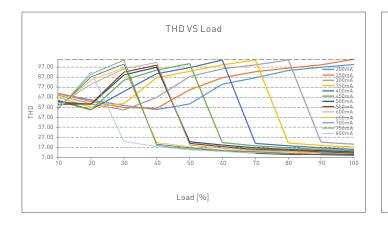


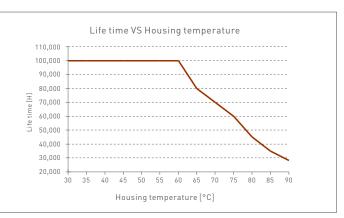


SE-40-300-1050-W2A





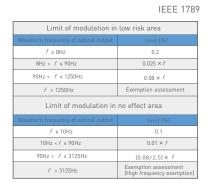


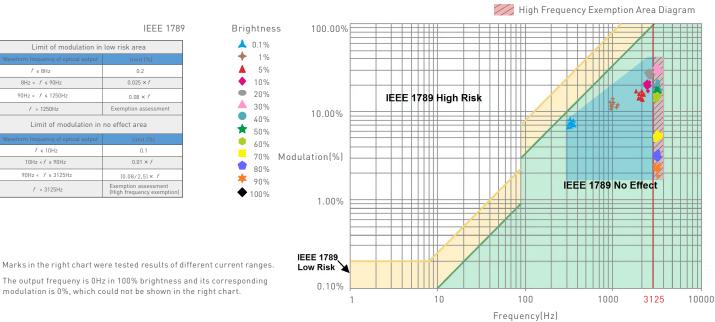


Modulation Area Diagram



### Flicker Test Sheet





The output frequeny is 0Hz in 100% brightness and its corresponding modulation is 0%, which could not be shown in the right chart.

# Packaging Specifications

Model	SE-40-300-1050-W2A	SE-30-200-800-W2A
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; 40 PCS/Carton
Weight	0.17 kg/PC; 7.6 kg±5%/Carton	0.15 kg/PC; 6.8 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**

- Products shall be installed by qualified professionals.
- 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 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.
- $\bullet \quad \text{Free repair or replacement services for quality problems are provided within warranty periods}.$

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.
- $2.\,\mathsf{LTECH}\ \mathsf{has}\ \mathsf{the}\ \mathsf{right}\ \mathsf{to}\ \mathsf{amend}\ \mathsf{or}\ \mathsf{adjust}\ \mathsf{the}\ \mathsf{terms}\ \mathsf{of}\ \mathsf{this}\ \mathsf{warranty}, \ \mathsf{and}\ \mathsf{release}\ \mathsf{in}\ \mathsf{written}\ \mathsf{form}\ \mathsf{shall}\ \mathsf{prevail}.$



# **Update Log**

Version	Updated Time	Update Content	Updated by
Α0	2023.02.23	Original version	Liu Weili

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