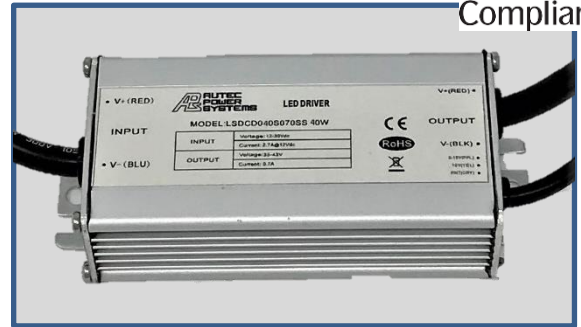


■ Features

- Power Rating: 40W
- Input Voltage: 10~30Vdc
- Constant current design
- Output current(450mA-1200mA)
- Efficiency up to 94%
- Dimmable with 0-10V/PWM/Timer dimming (optional)
- UL Class 2
- OVP, OCP, SCP, OTP
- IP67



*Product images are for illustrative purposes only and may vary from actual design.

■ Application

- Indoor or outdoor lights

■ Model List *(See part number scheme for model number details)

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Certification
LSDC-040S045SS	10~30Vdc	40W	33-88V	450mA	450mA	94%	UL/cUL
LSDCD040S045SS	10~30Vdc	40W	33-88V	450mA	450mA	94%	UL/cUL
LSDC-040S070SS	10~30Vdc	40W	33-58V	700mA	700mA	94%	UL/cUL
LSDCD040S070SS	10~30Vdc	40W	33-58V	700mA	700mA	94%	UL/cUL
LSDC-040S105SS	10~30Vdc	40W	33-39V	1050mA	1050mA	94%	UL/cUL
LSDCD040S105SS	10~30Vdc	40W	33-39V	1050mA	1050mA	94%	UL/cUL
LSDC-040S120SS	10~30Vdc	40W	33-36V	1200mA	1200mA	94%	UL/cUL
LSDCD040S120SS	10~30Vdc	40W	33-36V	1200mA	1200mA	94%	UL/cUL

*(-=No dimming/D=Dimming)

■ **Technical Data**

Input voltage range	10~30Vdc
Inrush current	Cold start 68A @12Vdc
Max input current	3.7A @12Vdc and 1.8A @24Vdc
Load Regulation	± 1%
Line Regulation	± 1%
Current Tolerance	± 5%
Turn-on Delay Time	< 0.1s at full load condition
Ripple & Noise (pk-pk)	< 3%
Leakage current	<0.6mA @12Vdc
Protection	<p>Over voltage protection: Hiccup mode. Auto recover after the fault condition is removed.</p> <p>Over current protection: Constant current limiting, auto recover after the fault condition is removed.</p> <p>Short circuit protection: Auto recover after the fault condition is removed.</p> <p>Over temperature protection: Auto recover after fault condition is removed.</p>
Operating temperature	-35 ~ 70°C
Storage temperature	-40 ~ 85°C
Humidity	Operational: 10~100% RH non-condensing Storage: 5~100% RH
MTBF	430,000 hours
Length (L)	4.09" (104mm)
Width (W)	1.93" (49mm)
Height (H)	1.30" (33mm)
Packing	310±10g

Notes:

1. All parameters NOT specifically mentioned are measured at 24Vdc input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation, & load regulation.
4. Please refer to "DRIVING METHODS OF LED MODULE".
5. Derating may be needed under low input voltages. Please check the static characteristic for details.
6. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minutes.

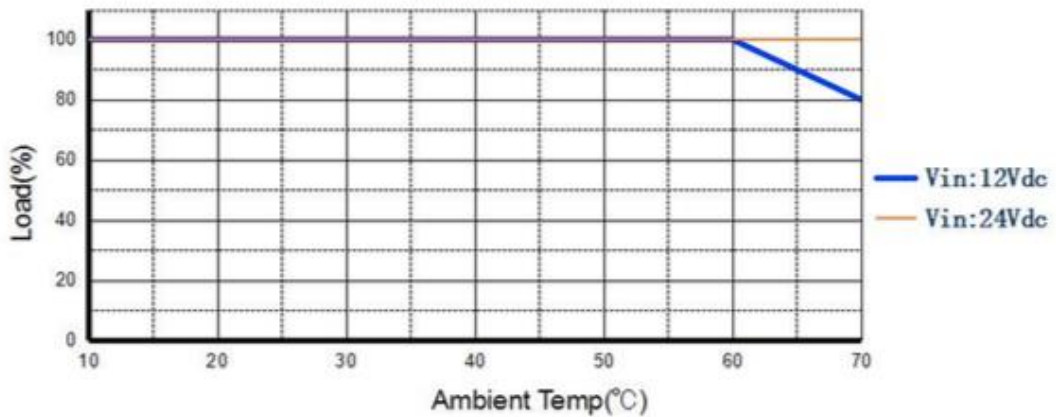
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Notes(Cont.):

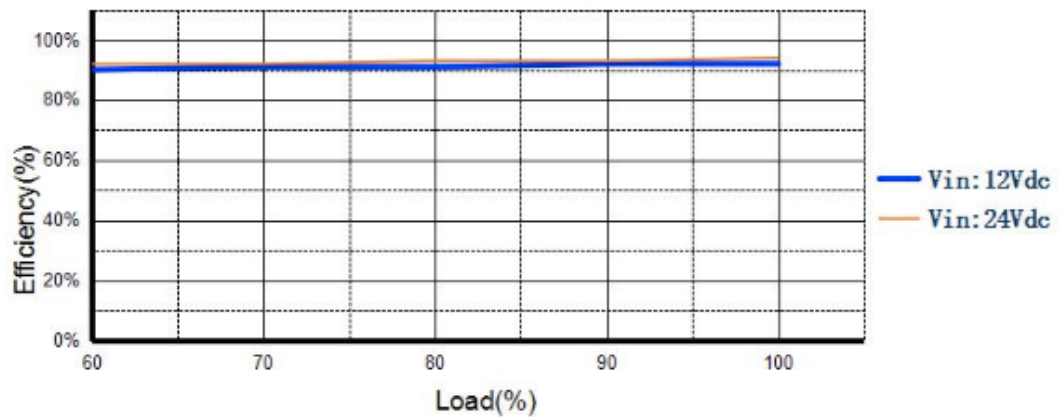
7. Length of turn-on time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the turn-on time.
8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC DIRECTIVE on the complete installation again.
9. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.
10. To fulfill requirements of the latest ERP regulation for lighting fixtures, this LED power supply can only be used behind switched without permanent connection to the mains.

■ **Derating Curve**

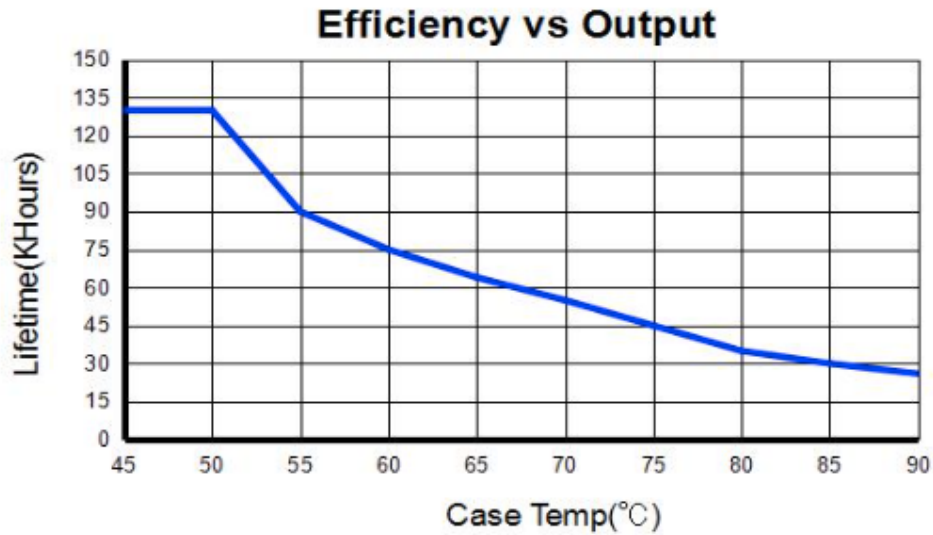
Derating Characteristics



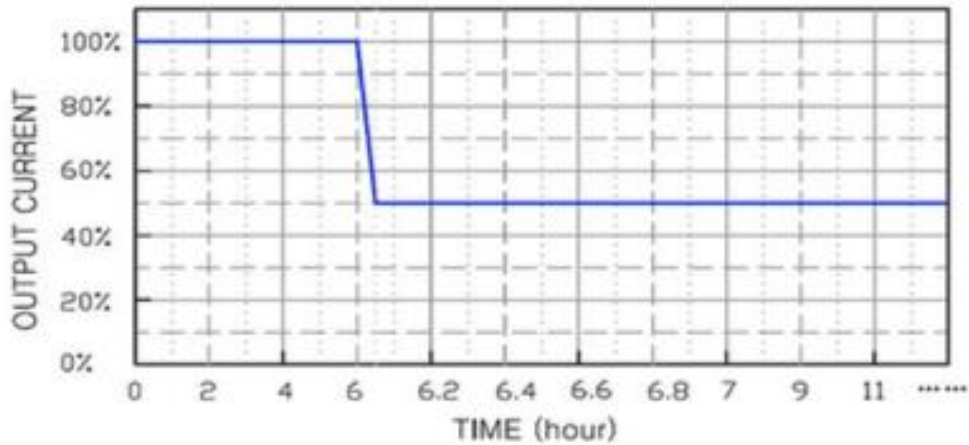
Efficiency vs Output



■ Derating Curve(Cont.)

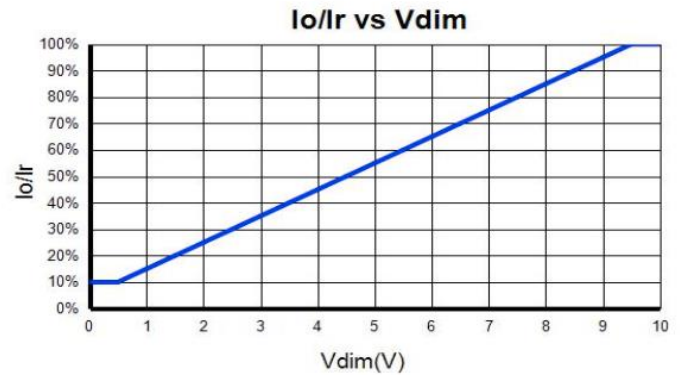


■ Timer Dimming



■ **0-10 V Analog Dimming**

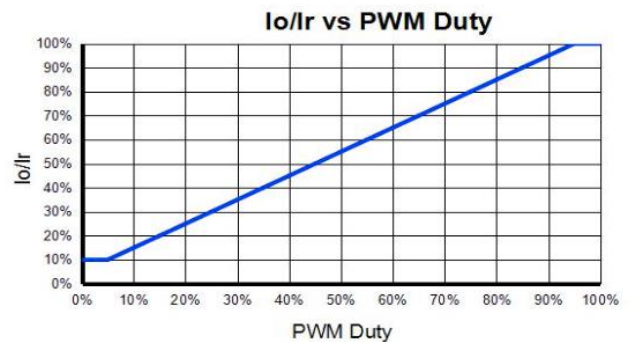
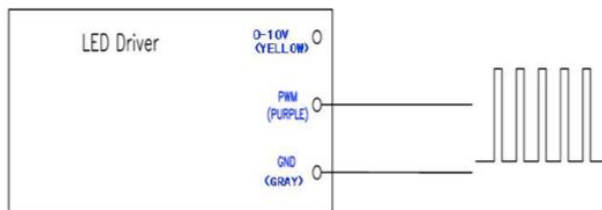
Input Dimming Voltage	0-12V	Normal 10-11V
Input Source Current	0-10mA	47 ~ 63Hz



Notes:

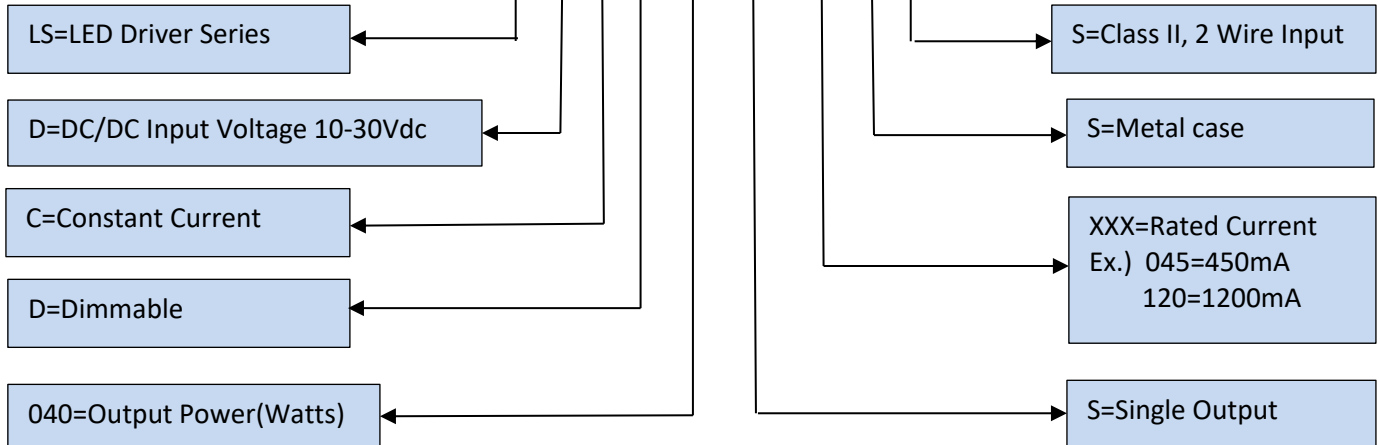
1. If the dimming function is not used at all, all wire NC.
2. I_o is actual output current and I_r is rated current without dimming control.
3. For the driver to operate properly, the load voltage must be maintained above the input voltage t , approximately 50% of the max. output voltage for any given mode.
4. The dimming signal is allowed to be less than 1V in application is strongly recommended.
5. Do not connect the **GND of dimming (grey)** to the output. Otherwise, the LED driver cannot work normally.

■ **PMW Dimming**



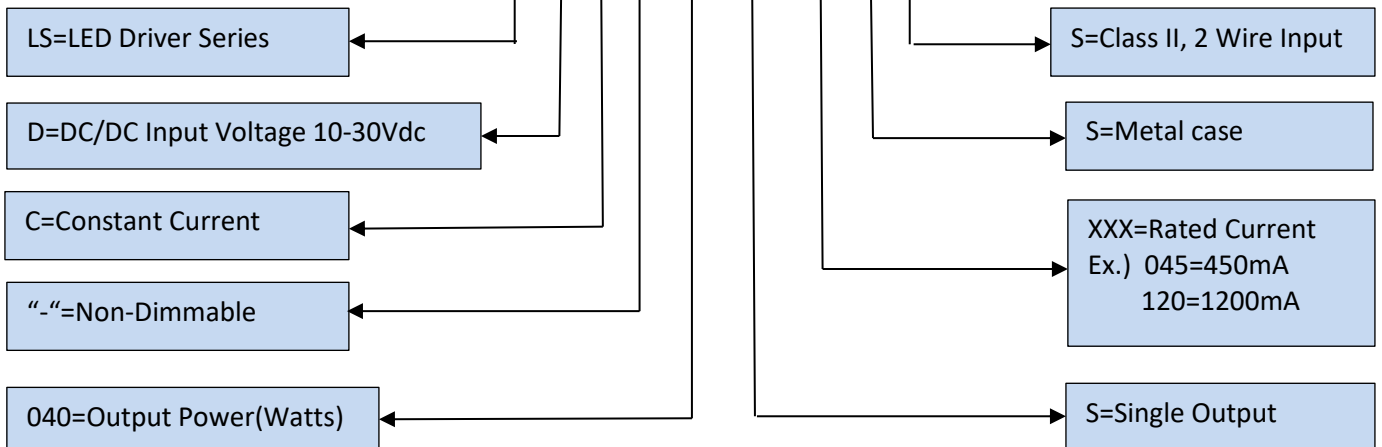
Part Number Scheme

LS D C D 040 S XXX S S



Part Number Scheme

LS D C - 040 S XXX S S



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***Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.**

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