

■ **Features**

- Power Rating: 80W & 160W
- Input Voltage: 10~40Vdc
- Constant current design
- Output current(50mA-4000mA)
- Very high efficiency: charger(96%), MPPT(99%), & driver sections(96%)
- 12V or 24V battery charging with auto detection & auto smart charge
- Programmable time/current dimming levels to maximize output
- Field programmable with IR port
- SCP, Under voltage and Incorrect input protections
- IP67
- 5-year warranty



*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	Driver Output Current(6)	Driver Output Voltage(6)	Charger Output Current(5)	Charger Output Voltage(5)	Solar Panel Input Voltage(4)	Certification
LSDC-MPPT10A	50-4000mA	16-60V(12V Batt.) 36-60V(24V Batt.)	10A	11-15Vdc(12V Batt.) 22-29Vdc(24V Batt.)	10-20Vdc(12V Batt.) 24-40Vdc(24V Batt.)	CE

***Follow the link below for complete user guide for Remote Control Unit PRLCD.**

(Requires 2 AA batteries, batteries not included)

https://autec.com/wp-content/uploads/2019/03/Remote-Instructions_19-C.pdf

Disclaimer:

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

■ Technical Data

Power to Driver (6)	80W With 12V Battery & 160W With 24V Battery
Current Ripple	3% (Max.)
Driver Efficiency (2)	96%
Charger Efficiency (2)	96%
Voltage (Optimum)	≥18V For 12V Battery & ≥36V For 24V Battery
Voltage (Max)	55V
Efficiency (MPPT)	99%
Current	10A (Max.)
Connection	Solar panel reverse connection to driver
	Battery reverse connection to driver
	Reverse current to solar panel
Short Circuit	Driver output
Battery	Under voltage (10.8V for 12V, 21.6V for 24V)
Temperature Range Operational	-40°C~+60°C
Temperature Range Storage	-45°C~+80°C
Humidity Operational	10~100% RH non-condensing
Humidity Storage	5~100% RH
Sleep Mode Power (3)	6mA With 12V Battery & 12mA With 24V Battery
Life Time	100k hours
Dimensions	(L*W*H) 142*90*27 mm 5.59*3.54*1.06 inches
Weight	453g/ 1lb

Notes:

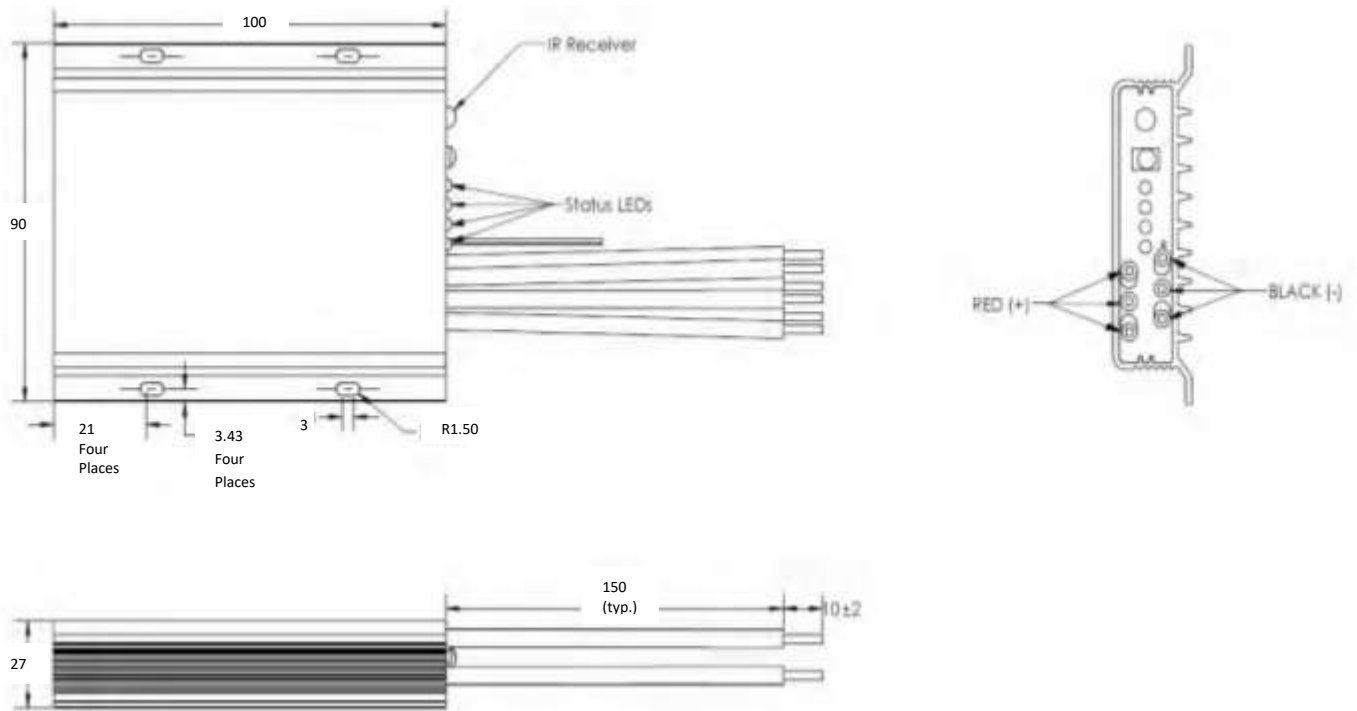
1. All specifications are typical at 25°C unless otherwise stated.
2. The “Efficiency” values are measured at half load, after the unit is thermally stabilized.
3. Sleep mode occurs under the following conditions: Controller only connected to battery. Controller only connected to battery and solar panel. During under voltage protection.
4. The controller supports monocrystalline silicon, polycrystalline silicon and thin film solar panels.
5. The controller is for use with lead acid batteries only.
6. The controller is designed for LED luminaire use only.
7. Please connect wires in the following sequence: LED-Battery-Solar panel(PV)

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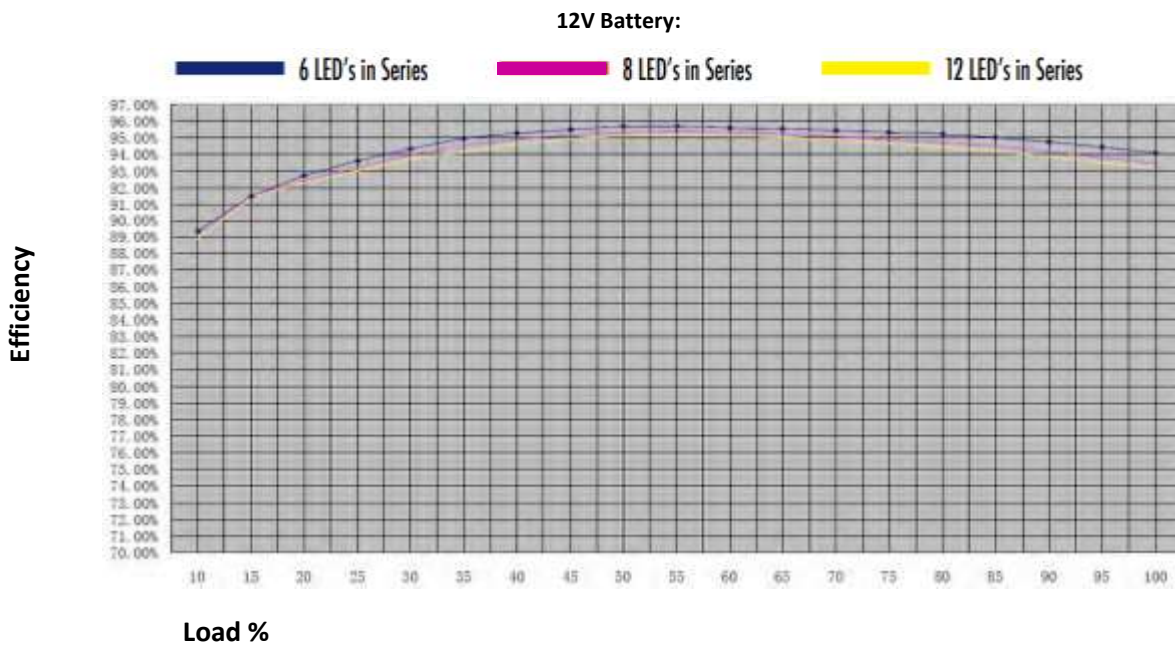
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March 23, 2019

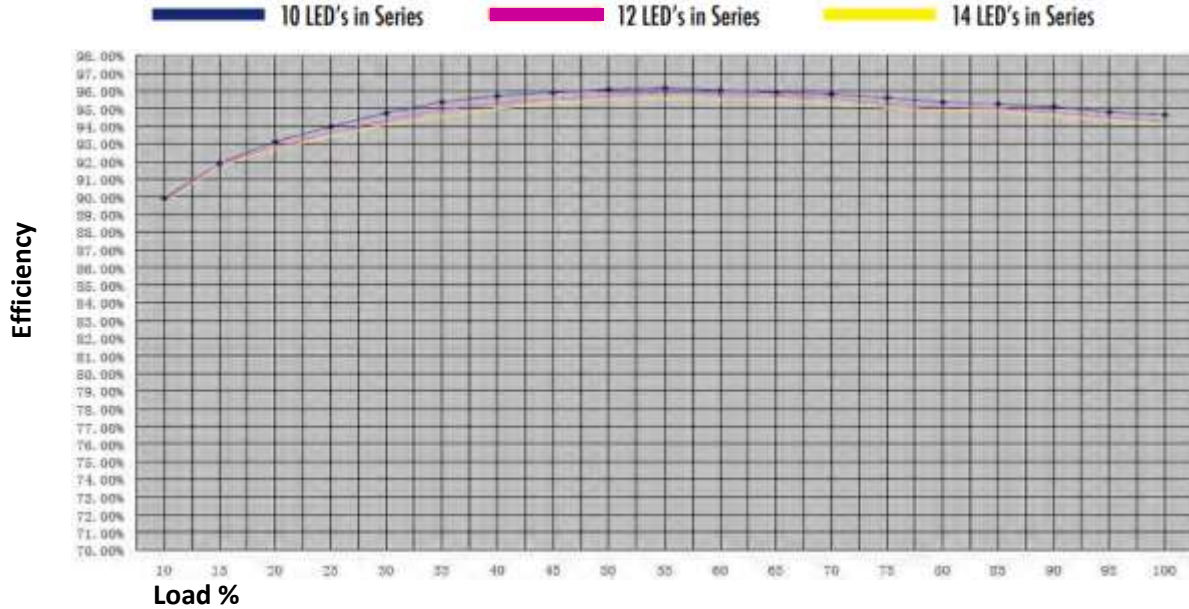
■ **Mechanical Diagram**



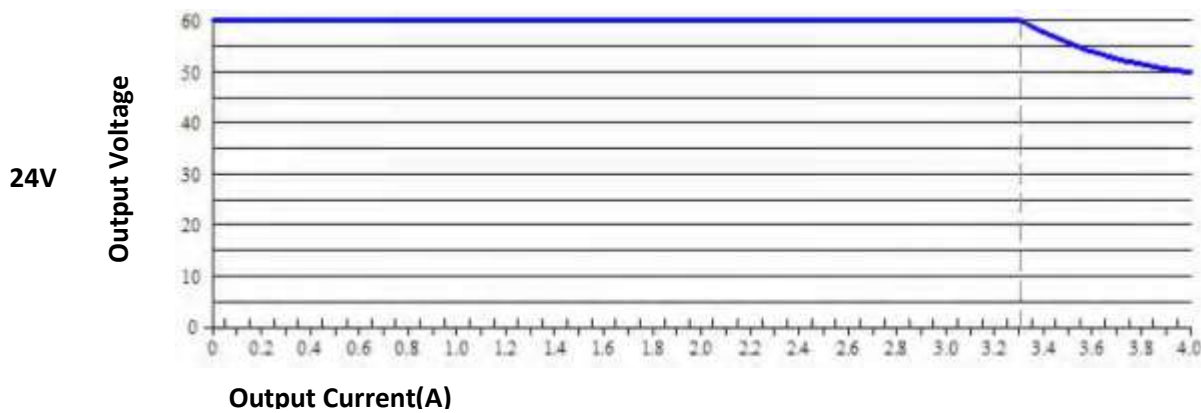
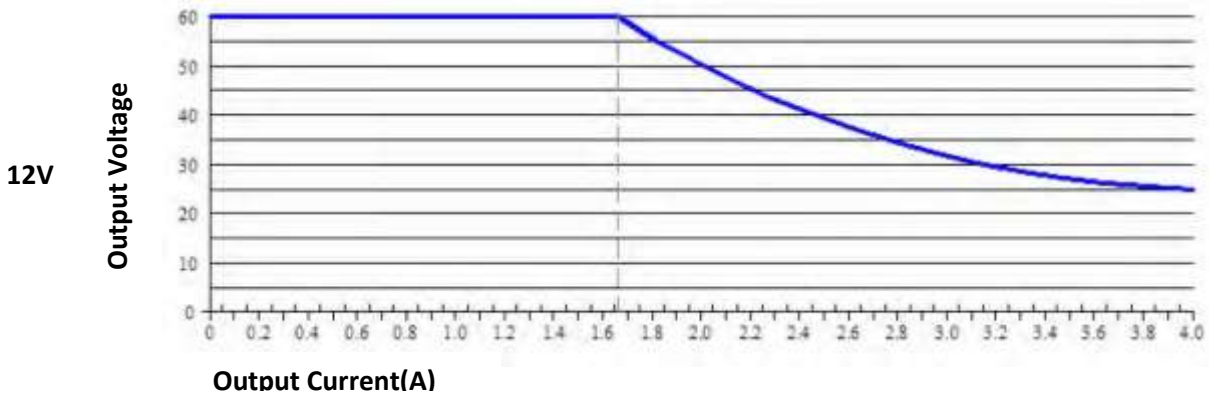
■ **Efficiency vs Load**



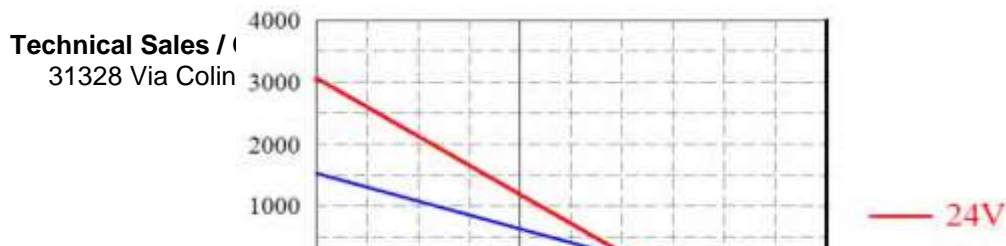
■ **Efficiency vs Load(cont.)**



■ **Maximum Current at Output Voltage**



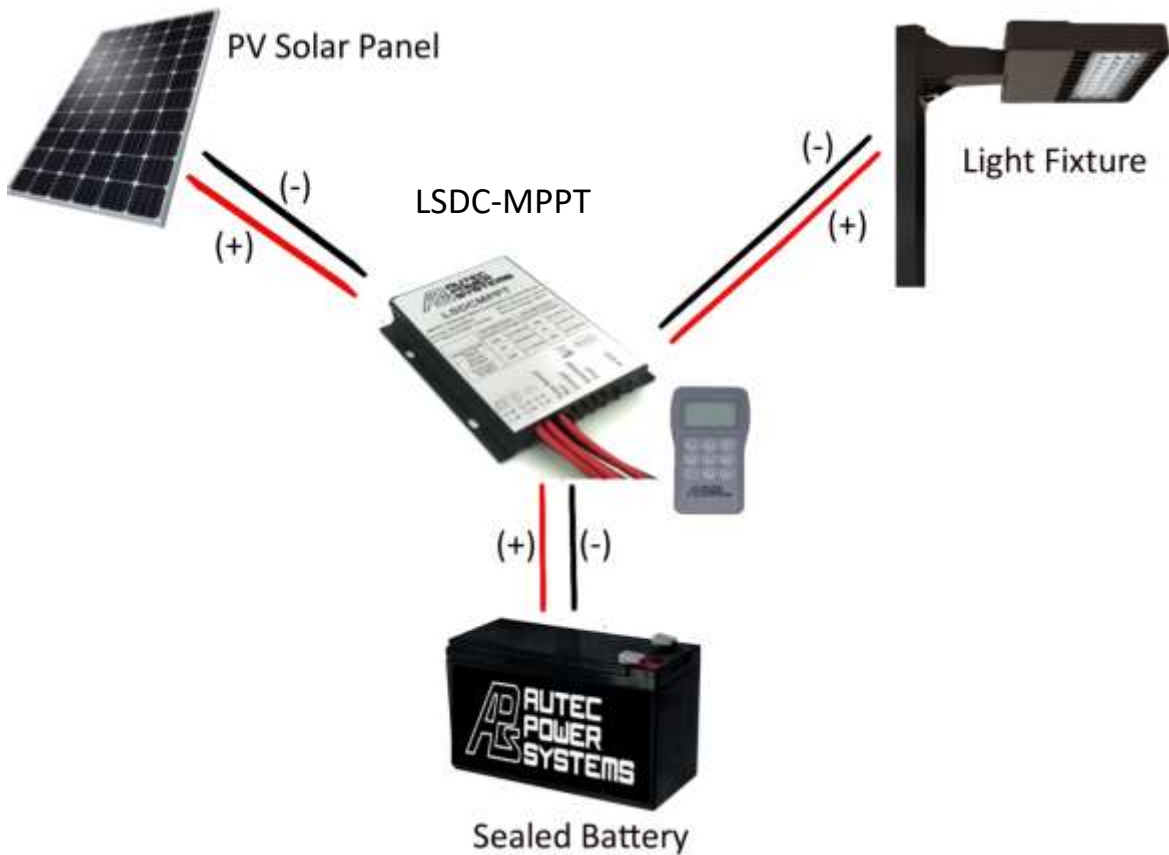
■ **Temperature Compensation for Charging Voltage (mV)**

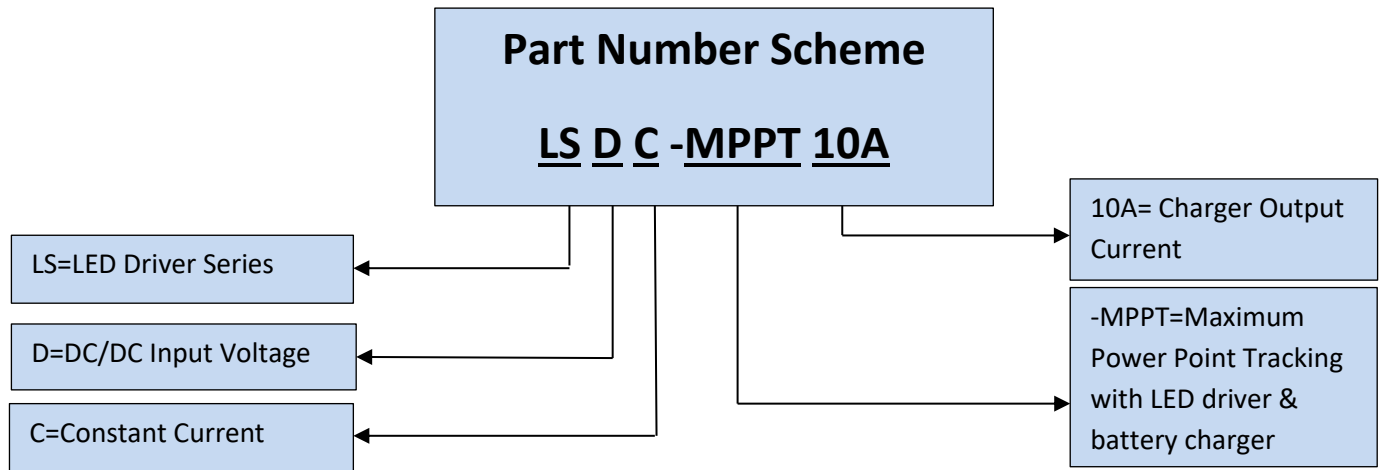


Charging Voltage (mV)

Temperature °C

■ **Block Diagram**





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