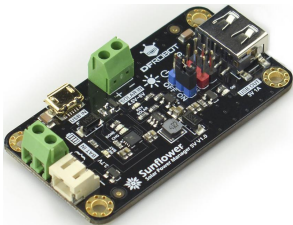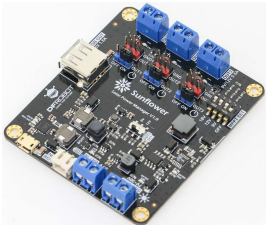**Introduction of Sunflower Series:**

DFRobot Sunflower is a brand new series focusing on high-efficiency micro to middle power solar energy harvesting and management for makers, renewable energy and IoT projects. All Sunflower modules feature as MPPT (Maximum Power Point Tracking) maximizing solar collection efficiency under different sun light, and a variety of battery and power protections. These features provide makers' solar projects efficient and reliable power management.

Sunflower Solar Power Manager Series

Name	Solar Power Manager	Solar Power Manager 5V
SKU	DFR0535	DFR0559
Solar Power Management IC	LTC3652	CN3065
Solar Input Voltage	7V-30V	4.4V-6V
Maximum Charge Current	2A	900mA
Topology	DC-DC Buck	Linear Regulator
Battery	3.7V Lithium Battery	3.7V Lithium Battery
MPPT	Yes (9V/12V/18V Optional)	Yes (Fixed 5V)
Battery Protections	Over Charge/Over Discharge/Over Current/Reverse Connection Protections	Over Charge/Reverse Connection Protections
Output Protections	Short Circuit/Over Current/Over Heat Protections	Short Circuit/Over Current Protections
USB Charge IN	Yes	Yes
USB OUT	5V 1.5A	5V 1A
Regulated OUT	Three Regulated Outputs 3.3V 1A; 5V 1.5A; 9V/12V 0.5A	One Regulated Output 5V 1A
Dimension	78.0mm×68.0mm	33.0mm×63.0mm
Features	A complete multifunction solar power management module. Applications: Small Solar Street Lamp, Solar Powered Robots **For 9V/12V/18V Solar Panels within 20W**	A small and easy-to-use 5V solar power management module. Applications: Solar Power Bank, Solar Environment Monitors **For 5V Solar Panels within 10W**