

SDO Device



The SDO device is an intelligent Power management device That is designed to optimally control single line to dual electrical Supply lines. The SDO device is especially designed in situation where Electrical load is divided into critical electrical load (PC, Fan, and Bulb) and secondary Heavy electrical load like Air Conditions etc. The SDO Device is designed for consumer applications hence it is the most compact and smart power management device in the market.

Normally inverters primarily operates on solar and share extra required power from utility power, in case, utility/Wapda supply failed, if solar is not sufficient, the inverters draw all power from battery. In such scenario, where battery is smaller or electrical load is too heavy, there will disastrous consequences of complete system shutdown. This device is the excellent solution for such problem. SDO device switch off heavy load while light load remained intact without any interruption in this condition. The smart algorithm and compact size makes it a unique product and an ideal choice to be used with any house hold solar solution.

It is suitable for a wide range of battery systems and consumes less than 2.5watts of power for operation. It comes in a compact plastic casing that can be mounted on the wall as well as on a standard DIN rail.

The unit measures PV voltage, Battery voltage and utility/Wapda power and based on an intelligent algorithm control outputs (light and heavy electrical load), which in-turn optimizes the Battery Storage/Life and ensure long backup for critical loads.



Product features

- Optimum utilization of electrical load i.e. Primary critical load and Secondary heavy load.
- Optimized for Battery Utilization increases battery cycles and enhances battery life.
- Available for a wide range of battery systems
- Designed for a high PV voltage array input
- User configurable system parameters
- Industrial operation temperature range
- Operation completely independent from the inverter
- 16x2 LCD and 4 buttons for configuration and system monitoring
- Easy to operate configuration menu
- High Contrast LCD with backlight for operation in low light conditions
- Reverse Battery and PV protection
- Ambient temperature sensor
- 2 year warranty

Location

Plot # 10, Lane 25A
Phase 2, Model Town
Wah Cantt, Pakistan.

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SDO (Single to Dual Output) Device

Electrical Specifications

Battery voltage	12V / 24V / 48V DC systems
Current Rating	20Amp + 20Amp
Maximum PV array voltage (operating)	450VDC
Maximum PV array open circuit voltage	500VDC
Total power consumption while operating	2.5 Watts max (At Full Power)

Special Features

Display	16x2 LCD
Navigation	4 Button

Mechanical Specifications

Dimensions (H × W × D)	90mm × 145mm × 41mm
Weight (shipping)	~500g
Shipping dimensions (H × W × D)	110mm × 110mm × 50mm
Mounting	Wall Mount / DIN Rail Mount

Environmental Specifications

Operating temperature range	-20 to +85 °C
Storage temperature	-40 to +125 °C

*Specifications subject to change without notice.

Utility Mode Connection Diagram

