

EverStar

SOLAR CONTROLLER



Everexceed is pleased to introduce our NEW generation solar controller EverStar. Over 100 thousand EverStar controllers have been installed in over 50 countries for numerous solar power systems including oil/gas, telecom and instrumentation, marine and boating, and remote homes. We have retained much of our legacy design including the same ratings, footprint and simple user interface, and have added several new and advanced high value features

- Full electronic protections
- 3 stage battery charging
- Self-diagnostics to detect critical faults
- Multi-color status LED
- 4 LED for battery capacity
- Dead battery recovery
- USB output function

Key Features and Benefits:



■ Extremely High Reliability

- Failure rate of less than 1 per 1,000 shipped (<0.1%)
- 100% solid state. Power MOSFET design
- Manufactured in an ISO 9000 factory
- 100% pre-shipment functional testing

■ Longer Battery Life

- Advanced PWM charging
- Series design (not shunt) for cool operation
- 3-stage charging: bulk, absorption, float
- Optimized sealed or flooded battery set points
- Temperature compensated charging
- Low voltage load disconnect on several versions

■ Designed for Harsh Environments

- Temperature rating of -30°C to $+60^{\circ}\text{C}$
- Epoxy encapsulation for protection against humidity and dust ingress
- Corrosion protection: marine rated terminals and anodized aluminum case
- Certified for use in hazardous locations

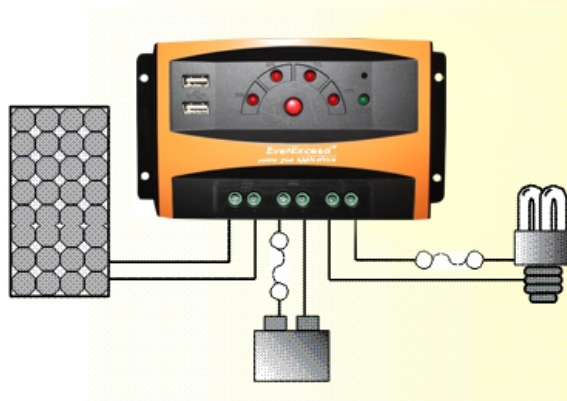
■ Easy to Install and Use

- Factory pre-sets result in no required install settings
- Electronic protections prevent damage from wiring



Titan Versions

Model	Charge current	System voltage
• ES10	10A	12/24V
• ES20	20A	12/24V
• ES30	30A	12/24V



TECHNICAL SPECIFICATIONS

Electrical

• System voltage	12V or 24V	
• Regulation voltage	12V	24V
• Load disconnect (LVD)	10.7V	21.4V
• LVD reconnect	12.6V	25.2V
• HVD disconnect	15.5V	31V
• Float voltage	13.8V	27.6V
• Absorption voltage	14.4V	28.8V
• Self-consumption	≤12.5mA	
• USB output	5V/1A	

Environment

• Ambient temperature	-20°C to +60°C
• Storage temperature	-55°C to +80°C
• Humidity	≤90%non-condensing

Electronic Protections

- **Solar:** Overload, short-circuit, high voltage.
- **Load:** Short-circuit, high voltage
- **Battery:** High voltage
- **All:** Reverse polarity, high temperature

Battery charging

• Charging method	3 stage PWM
• Charging Stages	Bulk, absorption, float
• Temperature compensation	-4mV/°C/Cell
• Battery type	AGM, Sealed, Gel

Mechanical

• Dimension	188 x 95 x 46.5mm
• Weight	345g
• Ingress protection	IP20
• Wire size	2.5mm ² (AWG13)

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