

EverExceed[®]
power your applications

EverPro

THREE-FUNCTION SOLAR CONTROLLER



EverExceed's EverPro Controller is a three-function controller that provides reliable solar battery charging, load control and diversion regulation. The controller operates in one of these modes at a time and two or more controllers may be used to provide multiple functions.

The EverPro uses advanced technology and automated production to provide exciting new features at a competitive cost. The controller is designed for both solar home systems and professional applications.



Highest Reliability

Large heat sink and conservative design enables operating at full ratings to 55°C. No need to de-rate.

More power

Ratings up to 80A at 48VDC will handle solar arrays up to 4kW.

Communications Capability

RJ45 connects to a personal computer for custom settings, data logging and remote monitoring and control.

Extensive Electronic Protections

Fully protected against reverse polarity, short circuit, overcurrent, high temperature and overvoltage.

Simple Mechanical Interface

Larger power terminals and conduit knockouts. Extra space for wire turns.

Fits on power panels.

Better Battery Charging

Connecting battery sense wires and optional remote temperature sensor will improve control accuracy. Constant voltage series PWM algorithm increases battery capacity and life.

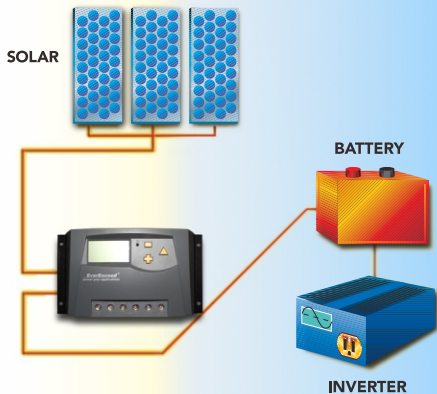
Easy to Reset

Push button provides manual reset and stop/start battery equalization and load disconnect.

Low Telecom Noise

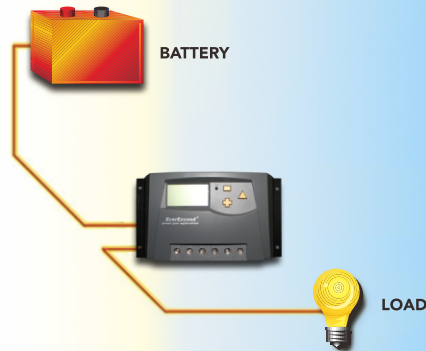
DIP switch setting will change PWM to "On-Off" battery charging.

CHARGE CONTROL



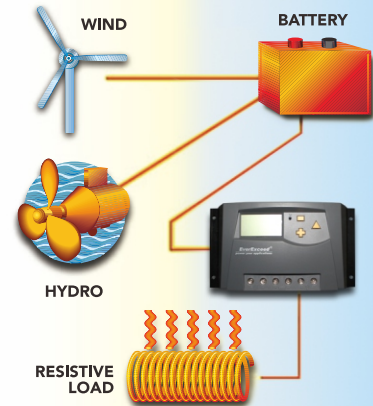
- Constant voltage series PWM design to provide highly efficient battery charging
- 4-stage charging to increase battery capacity and life: bulk charge, PWM regulation, float and equalize

LOAD CONTROL



- Starts large loads including motors and pumps with no damage to controller
- Electronic short-circuit and overload protection with automatic reconnect
- LVD is current compensated and has a delay to avoid false disconnects

DIVERSION CONTROL



- May be used for solar, wind or hydroelectric
- To protect against battery overcharge, excess energy is diverted from the battery to an alternate DC resistive load
- PWM reduces power into diversion load during over current conditions

TECHNICAL SPECIFICATIONS

Model	EP30	EP30-48	EP40	EP40-48	EP50	EP50-48	EP60	EP60-48	EP70	EP70-48	EP80	EP80-48
Rated current (A)	30		40		50		60		70		80	
Max input voltage(V)	50	100	50	100	50	100	50	100	50	100	50	100
Charge loop voltage drop(V)	≤0.25	≤0.35	≤0.19	≤0.30	≤0.19	≤0.30	≤0.19	≤0.30	≤0.19	≤0.30	≤0.19	≤0.30
Battery voltage(V)	12/24	48	12/24	48	12/24	48	12/24	48	12/24	48	12/24	48
No load loss(mA)	≤0.13	≤0.15	≤0.13	≤0.15	≤0.13	≤0.16	≤0.13	≤0.16	≤0.13	≤0.16	≤0.16	≤0.16
Battery type	Sealed, Gel, Flood, User customized											
Charge mode	4 stage (Bulk, Absorption, Float, Equalized), PWM											
Float charge voltage	13.8V (13-15V) x1/x2/x4											
Absorption charge voltage	14.4V (13-15V) x1/x2/x4											
Equalized charge voltage	14.6V (13-15.5V) x1/x2/x4											
Temperature compensation	-4mV/cell/°C											
Rated load current	30A	30A	40A	40A	50A	50A	60A	60A	/			
Discharge loop drop	≤0.1V	≤0.12V	≤0.09V	≤0.12V	≤0.09V	≤0.12V	≤0.09V	≤0.12V	/			
Work temperature	-20°C ~ +55°C											
Work humidity	10% ~ 90% no condensation											
Dimension(mm)	196x111x54				220x133x77.5				220*153*77			
Net weight	410g				1250g				1350g			



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