

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 100A at 48VDC will handle solar arrays up to 5kW.

Communications Capability (Optional)

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

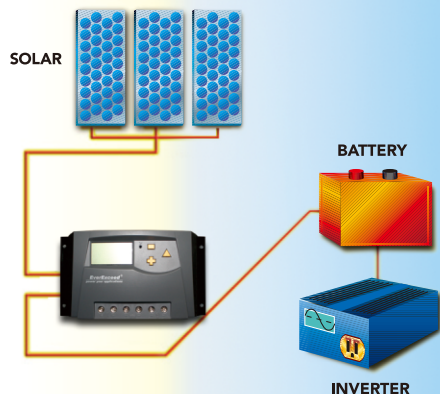
Push button provides manual reset and stop/start battery equalization and load disconnect.

Low Telecom Noise

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

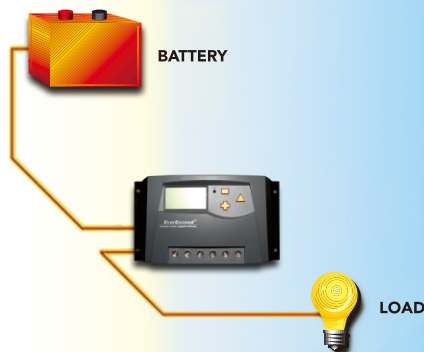
EverPro SOLAR LIGHT CONTROLLER

CHARGE CONTROL



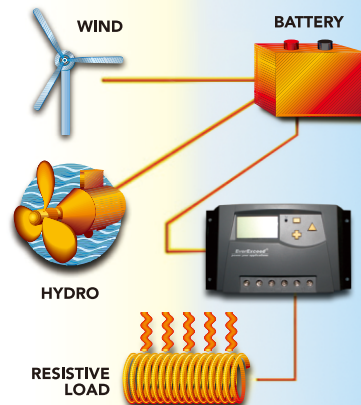
- Constant voltage series PWM design to provide highly efficient battery charging
- 4-stage charging to increase battery capacity and life: bulk charge, PWM regulation, float and equalize

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	EP10	EP20	EP30	EP40	EP50	EP60	EP80	EP100
Rated Charging Current (A)	10	20	30	40	50	60	80	100
Max PV Input Voltage(V)	50							
Battery Voltage(V)	12/24 Auto							
Battery Type	GEL,SLD,FLD,Usr(Default)							
Charge Mode	PWM Multi-stage (bulk,float,absorption,equalization)							
Float Charge Voltage	13.8V(13V~15V)*1/*2							
Absorption Charge Voltage	14.4V(13V~15V)*1/*2							
Duration of Absorption Charging	2hs							
Rated Load Current(A)	10	20	30	40	50	60	80	-
LVD(Battery Low Voltage Disconnection)	10.8V(10V~14V)*1/*2							
LVR(Battery Low Voltage Reverse)	12.6V(10V~14V)*1/*2							
HVR(Battery High Voltage Disconnection)	16.0V*1/*2							
HVR(Battery High Voltage Reverse)	15.5V*1/*2							
No Load Loss(mA)	≤ 14							
Temperature Compensation	-4mV/°C/2V							
Work Temperature	-20°C~60°C							
Work Humidity	10%~90%,no condensation							
Dimension(L*W*H mm)	160*88*42.5	178*101.5*45.5	196*111*54		188*133*51.5	188*133*59	220*133*77.5	220*153*77
Net Weight(g)	283	290	401	403	595	735	1210	1330
Enclosure	IP30							
Terminal Wiring(mm2)	≤ 6	≤ 10	≤ 16		≤ 25			
USB Output	5V 1A*2			None				
Communication (RJ45)	Optional							

TECHNICAL SPECIFICATIONS

Model	EP30-48	EP40-48	EP50-48	EP60-48	EP80-48	EP100-48
Rated Charging Current (A)	30	40	50	60	80	100
Max PV Input Voltage(V)	100					
Battery Voltage(V)	48					
Battery Type	GEL,SLD,FLD,Usr(Default)					
Charge Mode	PWM Multi-stage (bulk,float,absorption,equalization)					
Float Charge Voltage	55.2V(52V~60V)					
Absorption Charge Voltage	57.6V(52V~60V)					
Duration of Absorption Charging	2hs					
Rated Load Current(A)	30	40	50	60	80	-
LVD(Battery Low Voltage Disconnection)	43.2V(40V~56V)					
LVR(Battery Low Voltage Reverse)	50.4V(40V~56V)					
HVR(Battery Hight Voltage Disconnection)	64V					
HVR(Battery Hight Voltage Reverse)	62V					
No Load Loss(mA)	≤15					
Temperature Compensation	-4mV/°C/2V					
Work Temperature	-20°C~60°C					
Work Humidity	10%~90%,no condensation					
Dimension(L*W*H mm)	196*111*54		188*133*51.5	188*133*59	220*133*77.5	220*153*77
Net Weight(g)	403	410	600	740	1340	1350
Enclosure	IP30					
Terminal Wiring(mm ²)	≤16			≤25		
USB Output	None					
Communication (RJ45)	Optional					



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