

ENS Series PWM Solar Charge Controller with LCD

DESCRIPTION

The solar charge controller is one of key components of the PV off-grid solar system; our ENS series PWM solar controller can adopt different charge way baded on different batteries and the environment. It is designed with big clear LCD display with 4 bottoms to change different screens. Double solar panel inputs applied makes it more reliable, and the bottom aluminum radiation can make its work properly when the unit is hot.

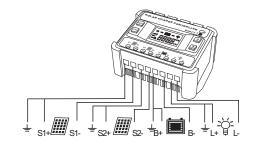
FEATURES

- $1. Pulse\ Width\ Modulation\ Technology, which\ offers\ the\ good\ efficiency\ of\ your\ PV\ system.$
- 2. Automatically detects 12/24V or 24/48V system voltage.
- 3.A big LCD screen display one main window and 7 different sub windows: battery voltage, PV charge current, Load discharge current, total PV charge Ah, total PV discharge Ah, the setting of constant voltage charging, the setting of low voltage disconnect, the setting of low voltage reconnect
- 4. The constant voltage charge, low voltage disconnect and reconnect data settable by user.
- 5.External temperature sensor
- 6.Temperature-compensated, three-stage I-U curve charge regulation
- 7. Full electronic protection (reverse polarity, over-current, short-circuit, over temperature, current drawback, lightning etc.)
- 8. Highest efficiency
- 9.Positive ground

- 10.Dual terminals for solar panel input
- 11.Battery type can be: GEL, AGM and solar battery etc.



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Model	ENS12/24-20D	ENS12/24-30D	ENS12/24-40D	ENS12/24-50D	ENS12/24-60D
Normal voltage	12/24V, automatic recognition				
Nominal battery charge current	20A	30A	40A	50A	60A
Max. PV input power	300W@12V	450W@12V	600W@12V	750W@12V	900W@12V
	600W@24V	900W@24V	1200W@24V	1500W@24V	1800W@24V
Max.solar input voltage Voc			<30V/48V		•
Min.solar input voltage Vmp			>16V/32V		
Power conversion efficiency			Max. 90%		
Standby power consumption	<15mA	<15mA	<20mA	<20mA	<20mA
Length≤1m charge loop drop	<0.25V				
Length≤1m discharge loop drop	<0.05V				
Temperature compensation	-3 mv/cell *K				
LCD screen display	Battery voltage, PV charge current, Load discharge current, total PV charge Ah, total PV discharge Ah, the setting of constant voltage charging, the setting of low voltage disconnect, the setting of low voltage reconnect				
Buttons	MENU, LOAD(ON/OFF), UP, DOWN				
Ambient temperature range	-40 to +50 °C				
Case protection	IP22				
Float charge	13.8V/27.6V				
Constant voltage charge	14.6V(14~15V settable) / 29.2V (28~30V settable)				
Low disconnect voltage	11V(10.4~11.4V settable) / 22V(20.8~22.8V settable)				
Low reconnect voltage	12.8V(12.2~13.2V settable) / 25.6V(24.4~26.4V settable)				
Grounding	Positive grounding				
Battery type	GEL,AGM, Solar battery etc.				
Dimensions(L*W*H)	172*126*75mm				
Weight(kg)	0.66	0.66	0.77	0.77	0.77
QTY/Ctn	18pcs/box.41.5*40*27cm				
N.W./Ctn	11.9		13.9		
G.W./Ctn	14.7		16.8		



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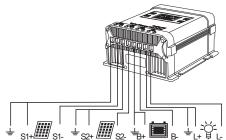
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FEATURES

- 1. Pulse Width Modulation Technology, which offers the good efficiency of your PV system.
- 2. Automatically detects 12/24V or 24/48V system voltage.
- 3.A big LCD screen display one main window and 7 different sub windows: battery voltage, PV charge current, Load discharge current, total PV charge Ah, total PV discharge Ah, the setting of constant voltage charging, the setting of low voltage disconnect, the setting of low voltage reconnect
- 4. The constant voltage charge, low voltage disconnect and reconnect data settable by user.
- 5.External temperature sensor
- 6.Temperature-compensated, three-stage I-U curve charge regulation
- 7.Full electronic protection (reverse polarity, over-current, short-circuit, over temperature, current drawback, lightning etc.)
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- 10.Dual terminals for solar panel input
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Model	ENS12/24-80D		
Normal voltage	12/24V, automatic recognition		
Nominal battery charge current	60A		
May DV input payor	1300W@12V		
Max. PV input power	2600W@24V		
Max.solar input voltage Voc	<30V/48V		
Min.solar input voltage Vmp	>16V/32V		
Power conversion efficiency	Max. 90%		
Standby power consumption	<20mA		
Length≤1m charge loop drop	<0.25V		
Length≤1m discharge loop drop	<0.05V		
Temperature compensation	-3 mv/cell *K		
LCD screen display	Battery voltage, PV charge current, Load discharge current, total PV charge Ah, total PV discharge the setting of constant voltage charging, the setting of low voltage disconnect, the setting of low voltage reconnect		
Buttons	MENU, LOAD(ON/OFF), UP, DOWN		
Ambient temperature range	-40 to +50 °C		
Case protection	IP22		
Float charge	13.8V/27.6V		
Constant voltage charge	14.6V(14~15V settable) / 29.2V (28~30V settable)		
Low disconnect voltage	11V(10.4~11.4V settable) / 22V(20.8~22.8V settable)		
Low reconnect voltage	12.8V(12.2~13.2V settable) / 25.6V(24.4~26.4V settable)		
Grounding	Positive grounding		
Battery type	GEL,AGM, Solar battery etc.		
Dimensions(L*W*H)	199*177.3*93mm		
Weight(kg)	1.52		
QTY/Ctn	12pcs/box.58.5*23*45cm		
N.W./Ctn	18.2		
G.W./Ctn	21.3		



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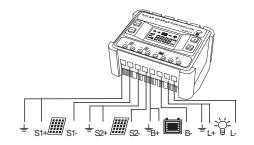
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Model	ENS24/48-20D	ENS24/48-30D	ENS24/48-40D			
Normal battery charge voltage		24/48V, automatic recognition				
Nominal battery charge current	20A	30A	40A			
Max. PV input power	600W@24V	900W@24V	1200W@24V			
	1200W@48V	1800W@48V	2400W@48V			
Max.solar input voltage Voc		<60V/96V				
Min.solar input voltage Vmp		>32V/64V				
Power conversion efficiency		Max. 90%				
Standby power consumption	<15mA	<15mA	<20mA			
Length≤1m charge loop drop	<0.25V					
Length≤1m discharge loop drop	<0.05V					
Temperature compensation	-3 mv/cell *K					
LCD screen display	Battery voltage, PV charge current, Load discharge current, total PV charge Ah, total PV discharge Ah, the setting of constant voltage charging, the setting of low voltage disconnect, the setting of low voltage reconnect					
Buttons	MENU, LOAD(ON/OFF), UP, DOWN					
Ambient temperature range		-40 to +50 °C				
Case protection	IP22					
Float charge	27.6V/55.2V					
Constant voltage charge	29.2V (28~30V settable)/ 58.4V (56~60V settable)					
Low disconnect voltage	22V(20.8~22.8V settable) / 44V(41.6~45.6V settable)					
Low reconnect voltage	25.6V(24.4~26.4V settable) / 51.2V(48.8~52.8V settable)					
Grounding	Positive grounding					
Battery type	GEL,AGM, Solar battery etc.					
Dimensions(L*W*H)	172*126*75mm					
Weight(kg)	0.66	0.66	0.77			
QTY/Ctn	18pcs/box.41.5*40*27cm					
N.W./Ctn(kg)	11.9	11.9	13.9			
G.W./Ctn(kg)	14.7	14.7	16.8			



Add: CARSPA Building, Xinhejia Industrial Zone, Baishi, Yueqing, Wenzhou, Zhejiang, China 325604

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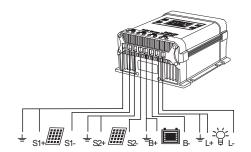
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Model	ENS24/48-50D	ENS24/48-60D	ENS24/48-80D			
Normal battery charge voltage		24/48V, automatic recognition				
Nominal battery charge current	50A	60A	80A			
Max. PV input power	1500W@24V	1800W@24V	2600W@24V			
	3000W@48V	3600W@48V	5200W@48V			
Max.solar input voltage Voc		<60V/96V				
Min.solar input voltage Vmp		>32V/64V				
Power conversion efficiency		Max. 90%				
Standby power consumption	<20mA	<20mA	<20mA			
Length≤1m charge loop drop	<0.25V					
Length≤1m discharge loop drop	<0.05V					
Temperature compensation	-3 mv/cell *K					
LCD screen display	Battery voltage, PV charge current, Load discharge current, total PV charge Ah, total PV discharge Ah, the setting of constant voltage charging, the setting of low voltage disconnect, the setting of low voltage reconnect					
Buttons	MENU, LOAD(ON/OFF), UP, DOWN					
Ambient temperature range	-40 to +50 °C					
Case protection		IP22				
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Low reconnect voltage	25.6V(24.4~26.4V settable) / 51.2V(48.8~52.8V settable)					
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