



ENS Series

Highly efficient charge controller that utilises pulse width modulation (PWM) for increased battery life & optimised system performance.

Product Features:

- 12/24VDC Auto Detect
- LCD screen displaying battery voltage, PV charge current, load discharge current, total PV discharge Ah, low voltage disconnect, low voltage reconnect
- Electronic Protection Functions
- External temperature sensor
- Temperature compensation automatically regulates charging and discharging parameters for improved battery life
- Power from pv indication
- Dual solar input terminals
- Suitable for use with GEL, Sealed Lead Acid & Flooded Batteries

YHI Part Code	ENS12/24-20D	ENS12/24-30D	ENS12/24-40D	ENS12/24-50D	ENS12/24-60D
Nominal voltage	12/24, Automatic Recognition	12/24, Automatic Recognition	12/24, Automatic Recognition	12/24, Automatic Recognition	12/24, Automatic Recognition
Nominal battery current	20A	30A	40A	50A	60A
Max PV input power	300W@12V 600W@24V	450W@12V 900W@24V	600W@12V 1200W@24V	750W@12V 1500W@24V	900W@12V 1800W@24V
Max solar input voltage VOC	< 30V / 48V	< 30V / 48V	< 30V / 48V	< 30V / 48V	< 30V / 48V
Min solar input voltage VMP	> 16V / 32V	> 16V / 32V	> 16V / 32V	> 16V / 32V	> 16V / 32V
Power conversion efficiency	Max 90%	Max 90%	Max 90%	Max 90%	Max 90%
Standby power consumption	< 15mA	< 15mA	< 20mA	< 20mA	< 20mA
Length \leq 1m charge loop drop	< 0.25V	< 0.25V	< 0.25V	< 0.25V	< 0.25V
Length \leq 1m discharge loop drop	< 0.05V	< 0.05V	< 0.05V	< 0.05V	< 0.05V
Temperature compensation	-3 mv/cell *K	-3 mv/cell *K	-3 mv/cell *K	-3 mv/cell *K	-3 mv/cell *K
Dimensions (L x W x H)	172 x 126 x 73 mm	172 x 126 x 73 mm	172 x 126 x 73 mm	172 x 126 x 73 mm	172 x 126 x 73 mm
Weights	0.35kg	0.36kg	0.38kg	0.4kg	0.4kg
Ambient temperature range	-40 to +50 °C	-40 to +50 °C	-40 to +50 °C	-40 to +50 °C	-40 to +50 °C
Case protection	IP22	IP22	IP22	IP22	IP22
Float charge	13.8V / 27.6V	13.8V / 27.6V	13.8V / 27.6V	13.8V / 27.6V	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, Wet Battery		