

PWM series

SN40/DH60/DH100/DH120
SES40/SES60/SES120



Performance characteristics

- Available for lead-acid battery and all types of lithium battery.
- Hibernation mode, static current can be low as 1mA.
- Wireless communication technology, convenient for setting parameters.
- Ten-stage induction setting, more flexible lighting time and efficiency control.
- Real-time monitoring over battery temperature, battery charge and discharge temperature is settable.
- Latest digital constant current technology leads to less load current fluctuation.
- The third generation microwave induction technology, strong anti-interference ability, long sensing distance.
- Multi-stage induction setting, more flexible lighting and electric quantity control.

Parameters

Models	SN40/SES40	DH60/SES60	DH100	DH120/SES120	Parameters adjustable	Default
Zero load loss	R : $\leq 10\text{mA}/12\text{V}$; W : $\leq 32\text{mA}/12\text{V}$		R : $\leq 10\text{mA}/12\text{V}$; $\leq 15\text{mA}/24\text{V}$ W : $\leq 32\text{mA}/12\text{V}$; $\leq 38\text{mA}/24\text{V}$			
Static Current	0.8mA/12V	0.8mA/12V 8mA/24V	0.8mA/12V 8mA/24V	0.8mA/12V 8mA/24V		
System voltage	12V	12V/24V	12V/24V	12V/24V		
Max load power	40W	40W/12V 60W/24V	50W/12V 100W/24V	60W/12V 120W/24V		
Load output voltage	15~45V	15~60V	15~60V	15~60V		
Load periods	9 periods + predawn	9 periods + predawn	9 periods + predawn	9 periods + predawn		
Rated charge current	10A	10A	15A	20A		
Max solar panel power	150W	150W/12V 300W/24V	225W/12V 450W/24V	300W/12V 600W/24V		
Solar panel input voltage	< 25V		< 55V			
Load conversion efficiency		90% ~ 96%				
Load current accuracy		$\leq 3\% \pm 30\text{mA}$				
Load current accuracy (Lead-acid)		14.6V ; $\times 2/24\text{V}(25^\circ\text{C})$				14.6V
Equalizing charge time (Lead-acid)		2 hours				
Equalizing charge interval (Lead-acid)		30 days				
Boost charge voltage (Lead-acid)		7.5V ~ 17V ; $\times 2/24\text{V}(25^\circ\text{C})$			✓	14.4V
Boost charge time (Lead-acid)		4 hours				
Floating charge voltage (Lead-acid)		7.5V ~ 17V ; $\times 2/24\text{V}(25^\circ\text{C})$			✓	13.8V
Temperature compensation coefficient (Lead-acid)		-3.0mV/°C/2V				
Overcharge voltage (lithium)		7.5V~17.0V; $\times 2/24\text{V}$ system			✓	12.5V
Overcharge return voltage (lithium)		7.5V~17.0V; $\times 2/24\text{V}$ system			✓	12V
Over discharge voltage		7.5V~17.0V; $\times 2/24\text{V}$ system			✓	9.2V
Over discharge return voltage		7.5V~17.0V; $\times 2/24\text{V}$ system			✓	10.2V
Light control voltage		3V ~ 11V; $\times 2/24\text{V}$			✓	5V
Operating temperature		-35°C ~ +65°C				
IP rating		IP67				
Weight (g)	150	170	280	300		
Dimensions (mm)	SN40 : 58*82*17 SES40 : 72*72*26	DH60 : 58*82*20 SES60 : 57.5*82*20	100*82*20	100*82*20		
Installation size (mm)	SN40 : 43*75 SES40 : 58*54	43*75	86*75	86*75		

Notice: -ES series products can be equipped with external body induction probe.