

MODEL	SMS-40A	
Rated Voltage	12/24 VDC	
Rated charge current	40A	
Load current	15A	
Input voltage range	15-55VDC	
Max. PV open circuit array voltage	55VDC	
Typical idle consumption	At idle < 10mA	
Overload protection (DC load)	2.0*I _{nom} >5s1.5*I _{nom} >20s1.25*I _{nom} temperature controlled	
Bulk charge	14.6V(default)	29.2V(default)
Floating charge	13.4V(default)	26.8V(default)
Equalization charge	14.0V(default)	28.0V(default)
Over charge disconnection	14.8V	29.6V
Over charge recovery	13.6V	27.2V
Over discharge disconnection	10.8 V (default)	21.6V(default)
Over discharge reconnection	12.3V	24.6V
Temperature compensation	-13.2mV/	-26.4mV/
Lead acid battery settings	Adjustable	
NiCad battery settings	Adjustable	
Load control mode	Low Voltage Reconnect (LVR): Adjustable2. Low Voltage Disconnect (LVD): Automatic disconnection3. Reconnection: Includes warning flash before disconnect and reconnection	
Low voltage reconnect	12.0-14.0 Vdc	24.0-28.0 Vdc
Low voltage disconnect	10.5-12.5 Vdc	21.0-25.0 Vdc
Ambient temperature	0-40(full load) 4060(de-rating)	
Altitude	Operating 5000 m, Non-Operating 16000 m	
Protection class	IP21	
Battery temperature sensor	BTS - optional remote battery temperature sensor for increased charging precision	
Terminal size (fine/single wire)	#8 AWG	