

24 / 36 / 48 Volts 50 Amp Solar Charge Controller

Technical Specifications				LED INDICATION		
Model	iDB SCC-24/36/48V 50A(LCD)			Yellow LED Steady	Solar Available and charging the battery	
Technology	MCU based PWM controlled charging			Yellow LED Blinking	Solar Available and Battery is fully charged	
Type	Series regulator common positive			Red LED Steady	Battery Low	
ELECTRICAL						
System Voltage	24V/36V/48V(Default Setting 48V)			Red LED Blinking	High Charging Current	
Battery Selection(Manually)	24V	36V	48V		Battery Voltage too High	
Charging current (Nominal)	50A Max				Solar Input Short or Reverse Current	
PV OCV Max	90V Max				Load Short Circuit	
Bulk Voltage (Adjustable)	27.8V-31.8V(28.4V Default)	41.7V-47.7V(42.6V Default)	55.6V-63.6V(56.8V Default)	PANEL REVERSE	Solar Panel Reverse Connection	
Absorption period	Upto 1Hour based on Battery DOD condition.			BATT REVERSE	Battery Reverse Connection	
Float Voltage	26.6V-28.2V(27.0V Default)	39.9V-42.3V(40.5V Default)	53.2V-56.4V(54.0V Default)	LCD DISPLAY	START UP SCREEN	
Low Battery	21.0V±0.2V	31.5V±0.2V	42.0V±0.2V		PV POWER & AVAILABILITY	
PROTECTIONS						
Battery Reverse Connection	Electronically Protected				SELECTED BATTERY BUS	
Battery Discharge by Panel	Electronically Protected				BATTERY VOLTAGE	
Solar Reverse Connection	Electronically Protected				PV CURRENT	
Solar Connection Short	Electronically Protected			BATTERY LOW FAULT		
Load At Solar Input	Electronically Protected			BATTERY HIGH FAULT		
Load Short Circuit	Electronically Protected			REVERSE CURRENT FAULT		
GENERAL						
Operating Temperature	0°C to 50°C					
Dimensions (LxWxH) in mm	264 x 183 x 90					