

MPPT Solar/ Grid Dual Charger-Controller

The Dual Charger is capable of charging battery from PV panel and / or Grid ac supply.

It monitors the incident Solar energy, Grid voltage & Battery charge level and optimally selects the charging mode. Solar charger takes priority over Grid charger.

In case of poor Solar availability, it can automatically charge from both Solar and Grid.

Dusk to Dawn or Continuous output load control.



TECHNICAL SPECIFICATION

Parameter	DC1B-200MG	DC2B-400MG
GRID CHARGER		
Input voltage range	120 to 280V, 50Hz AC	
Charger type	SMPS	
Charging current	8+/-1Amps	6+/-1Amps
SOLAR CHARGER		
PV array capacity (max)	200Wp	400Wp
Isc of array (max)	15Amps	15Amps
Voc of array (standard)	21V DC	42V DC
Idle power (max)	1W	1W
Charger type	MPPT	
Temperature compensation	-4mV/ Cell/ Degre K	
PV array type	Mono/ Polly crystalline	
BATTERY CHARGING PARAMETERS		
Boost charge voltage	14.2+/-0.2V	28.4+/-0.2V
Float voltage	13.8+/-0.1V	27.6+/-0.1V
Charging method	CC/ CV/ Float	
LOAD CONTROL		
Load switching rating (max)	150W	300W
Low battery cutoff	11V	22V
Battery reconnect	12.5V	25V
GENERAL		
Enclosure	IP65 class power coated metal cabinet	
Cooling	Internal cooling	
Protecton	1. Battery reverse 2. PV array reverse 3. Grid input surge up to 440V AC 4. SMPS over temperatur	
Termination	1. PV & battery-Terminal (internal) strip 2. Grid input-IEC standard inlet	
Weight	4.4Kg	
Dimension WxHxD mm	260x280x120	
Led display (internal)	PV charging/ Grid charging/ Dual charging	

*Note: Specification may change as result of continuous improvement of the product. Contact factory for latest update. Picture shown is that of the PCB. Actual model will come in enclosure as specified.