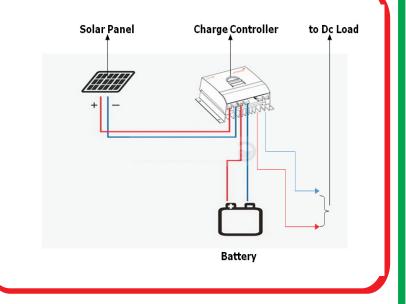
PWM (SOLAR CHARGE CONTROLLER)

Vitronics Contros







PWM (SOLAR CHARGE CONTROLLER)

A charge controller, or charge regulator is similar to the voltage regulator in your car. It regulates the voltage and current coming from the solar panels going to the battery. Most "12 volt" panels put out about 16 to 20 volts, so if there is no regulation the batteries will be damaged from overcharging. Most batteries need around 14 to 14.5 volts to get fully charged.

The final function of modern solar charge controllers is preventing reverse-current flow. At night, when solar panels aren't generating electricity, electricity can actually flow backwards from the batteries through the solar panels, draining the batteries. You've worked hard all day using solar power to charge the batteries; you don't want to waste all that power! The charge controller can detect when no energy is coming from the solar panels and open the circuit, disconnecting the solar panels from the batteries and stopping reverse current flow.

PWM (SOLAR CHARGE CONTROLLER)

MODEL	GENERAL		D	224/201	D14/8 44 01 / 10 1	
MODEL		L224/10A		224/20A	PWM12V 40A	PWM24V 40/
DC Voltage	12V	24V	12V	24V	12V	24V
Precise				Micro cor		
Operating Temperature	0-50 °C					
Storage Temperature	-20* to 70* C					
Battery Type	Tubular 200 AH Max.					
Battery Capacity						
Battery Charging Regulation Mode	22.51/	4514	22 51/	PWI	VI	
Operating Solar Input Voltage (Voc) Max	22.5V	45V	22.5V	45V	60014	420014
Solar Module Size(Max)	150W	300W	300W	600W	600W	1200W
New York Dettermined to a second	ELECTRIC	,AL	10	124110014		
Nominal Battery voltage		2014			uto Sensing)	
SPV Chg. Voltage Boost	14.5V	29V	15.5V	31V		
Charging Current (max)	1	LOA	2	0A	40	JA
Load Current Max.				>95		
Charge Controller Efficiency Idle Consumption			1-11-1-1-1-1	<30n	nA	
Min. Solar Input Voltage(Voc) @ Startup	17V ±2V	30V ±2V	17V ±2V	30V ±2V		1.00
LED / LCD	LED	LED	LED/LCD	LED/LCD	LCD	LCD
	LOAD CC	ONDITION				
USB Port						
Battery Low Voltage Load Disconnect						
Battery Low Voltage Load Recovery						
Battery High Voltage Load Disconnect						
Battery High Voltage Load Recovery						
		ICATION				
Solar ON	Green					
Fault	Green					
Batt. Low	Red					
Load ON				Gre	en	
			-0			
Dath Maltana Dath Command	DISPLAT	PARAMETE	:K			
Batt. Voltage, Batt. Current						
Solar Status: Overload						
Load Current						
Solar Wattage Solar PWH						
Solar PWH	DDOTI	CTION				
Detternullish / Law	PROTE	CTION		Augila	hla	
Battery High / Low				Availa		
Battery Reverse	Available					
SPV Reverse	Available					
SPV High / Low				Availa		
Reverse Current Flow from Battery to Solar	Available					
Panel Array	Available					
Load short Circuit through DC Fuce				Availat	ble	
	PHYSICA	L				
Weight	130	GM	3000	ЗM		
Dimension (LXWXH) MM	75x132x	(36 mm 🗧	100x161x	50 mm		
						/

<u>*Specification are subject to change without prior notice due to constant improvement in design & technology.</u>

Authorised Dealer



VITRONICS CONTROLS PVT. LTD.

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