



YOUR POWER CONSULTANT

Power





#### **Product Description**

DP 192X PWM Solar charge controller is an advanced 60/100A PWM solar controller packed with many programmable features. Supporting large array up to approximately 20kW, this controller has a maximum voltage input of 350V and is suitable to handle battery systems from  $12V \sim 192V$ . It is highly recommended to charge 192V or 16-batteries to harvest maximum solar power. Such high voltage input allows you to series-connect your PV modules and save money on combiner boxes & breakers! Product is certified by national and EMC standard and 100% reliable quality.

### **Technical Features**

- " MCU intelligent control technology, high performance
- " Optional English menu?LCD+LED display mode clearly to know the operation status
- " Solar array and battery use the same positive system, multiple independent solar array input control
- "Kinds of battery protect data setting
- " Display battery voltage, battery charge current, internal chassis temperature, accumulate photovoltaic power generation function, accumulate battery power function, accumulate power consumption function, solar panel current for each strings etc
- ' Complete protect: reverse battery protection, battery overcharge protection, internal chassis cooling control, battery anti-reverse charge at night time function and alarm function
- " It has history record and password protect function
- " It has time display function

### **Salient Features**

- " Reduce wiring cost and add decency of wiring
- " Reduce cable loss and increase system efficiency
- " Easy installation
- " MTBF is very high

### Application

Suitable for big solar project

# Power Control & Management

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			Bes	mart	Be Gre	en			
ons Table	e 1- (60								
		1	DP19250						
		5	50A						
		1	192VDC						
N	lax. PV v	oltage	e (VDC)	<	≤350				
		1	100-330		SOLAR2				
2	5								
					-0				
ŀ	lated out				50				
						(1 + 1			
						age/high			
					on				
Table	2- (10	0A-4	(Input)						
				1					
Model Rated power (W)				19.2K					
Rated power (W) Rated charge current (A)				100					
Rated charge current (A) Rated battery voltage (VDC)					192				
	Maxso		ar input (VDC) $\leq 350$						
	Muxise	nur m			2000				
-									
						SOLAR4			
						4.8K			
25	25		25			25			
) ge protect voltage (VDC)			223.9						
Overcharge recovery voltage (VDC)			219.2						
	Rated	outpı	ut current	(A)	100				
		1	754						
Low voltage protect voltage (VDC) High voltage protect voltage (VDC)									
Efficiency Protect function									
Protect function			over-voltage/DC output low voltage/high						
Fan starting temperature									
Operating temperature				0-40°C					
Storage temperature									
			$15 - +50^{\circ}$	С					
			15 - +50° -90% no		ation				
	M   S   4   2   R   R	Table 1- (60         Max. PV value         SOLAR1         4.8K         25         Rated out         Table 2- (10         Max.sc         SOLAR1         4.8K         25         Xable 2- (10         Max.sc         SOLAR1         4.8K         25         25         Xable 2- (2000)	Table 1- (60A-2         I         I         Max. PV voltage         Max. PV voltage         SOLAR1         4.8K         25         Rated output cl         I         Rated output cl         I	Table 1- (60A-2 Input)         DP19250         9.6K         9.6K         50A         192VDC         Max. PV voltage (VDC)         Max. PV voltage (VDC)         Max. PV voltage (VDC)         ABOLAR1         4.8K         4.8K         219.2         Rated output current (A         4.8K         248.0         >98%         Charge ove over-voltage/ove over-vo	Table 1- (60A-2 Input)DP192509.6K50A192VDCMax. PV voltage (VDC)4.8K2523.9219.2219.2Rated output current (A)175.4248.0>98%Charge over-current over-voltage/DC out voltage/over-current over-voltage/DC cut-15 - +50°C0-40°C-15 - +50°C0-90%no condensatiCustomizedTable 2- (100A-4 Input)Info-192100192192SOLAR1SOLAR1SOLAR1SOLAR1SOLAR1SOLAR1SOLAR1SOLAR2248.0219.2Rated output current (A)248.0252526272728%298%2020202020202020202020202020 <td>Table 1- (60A-2 Input)DP192509.6K50A192VDC4350Max. PV voltage (VDC)SOLAR1SOLAR1SOLAR1SOLAR14.8K4.8K4.8K219.2Rated output current (A)50175.4248.0&gt;98%Charge over-current, over-voltage/DC output low volt voltage/over-currentetc&gt;98%Charge over-current, over-voltage/DC output low volt voltage/over-currentetc&gt;98%Charge over-current, over-voltage/DC output low volt voltage/over-currentetc&gt;98%Colspan="2"&gt;Charge over-currentetc&gt;98%Colspan="2"&gt;Charge over-currentetc&gt;98%Colspan="2"&gt;Charge over-currentetc&gt;98%Colspan="2"&gt;Charge over-currentetcDP-192100192Ifo-350SOLAR1SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR3<td colspa<="" td=""></td></td>	Table 1- (60A-2 Input)DP192509.6K50A192VDC4350Max. PV voltage (VDC)SOLAR1SOLAR1SOLAR1SOLAR14.8K4.8K4.8K219.2Rated output current (A)50175.4248.0>98%Charge over-current, over-voltage/DC output low volt voltage/over-currentetc>98%Charge over-current, over-voltage/DC output low volt voltage/over-currentetc>98%Charge over-current, over-voltage/DC output low volt voltage/over-currentetc>98%Colspan="2">Charge over-currentetc>98%Colspan="2">Charge over-currentetc>98%Colspan="2">Charge over-currentetc>98%Colspan="2">Charge over-currentetcDP-192100192Ifo-350SOLAR1SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR2SOLAR3 <td colspa<="" td=""></td>			

	Fan starting temperature
	Operating temperature
	Storage temperature
	Operating/storage environment
	Product size: W*D*H (mm)
1	

ne sun	Pov					mart	Be Gr	Strice 200 <sup>3</sup>	
	Technical Specificati	chnical Specifications Table 1- (60A-2 Input)							
	Model		DP19250						
	Rated power (W)Rated charge current (A)				9.6K 50A				
	Rated battery voltage (VDC)		192VDC						
				$\therefore$ PV voltage (VDC) $\leq 350$					
	Charge voltage range (VDC)			160-350					
	2 inputs	OLAR1		100 000		SOLAR2			
	Max. power for each input (Wp)						4.8K		
	Max. input current for each input (A)						25		
	Overcharge protect voltage (VDC)				223.9	I			
	Overcharge recovery voltage (VDC)		219.2						
	DC output	tput o	current (A		50				
	Low voltage protect voltage (VDC)				175.4				
_	High voltage protect voltage (VDC)		248.0						
Z	Efficiency		>98%						
T A	Protection				Charge ove				
<u> </u>			over-voltage/DC output low voltage/high voltage/over-current .,etc						
S	Fan starting temperature		$>45^{\circ}C$						
Z	Operating temperature				0-40°C				
ŏ	Storage temperature		-15 - +50°C						
<u> </u>	Operating/storage environment		0-90%no condensation						
N	Product size: W*D*H (mm)		Customized						
YOUR POWER CONSULTAN	Table 2- (100A-4 Input)								
с С	Model	I	DP-192100						
5	Rated power (W)				19.2K				
<u>ک</u>	Rated charge current (A)		100						
-	Rated battery voltage (VDC)			192					
	Solar panel input	Max.solar input (VDC) ≤350							
	Charge voltage range (VDC)				160-35	0			
	4 solar input	SOLAR1		SOLA		SOLAR3		SOLAR4	
	Max power for each solar input (Wp)	4.8K	4.81			4.8K		4.8K	
	Max input current for each solar 25 input (A)				25 25 25				
	Overcharge protect voltage (VDC)			223.9					
	Overcharge recovery voltage (VDC)			219.2					
	DC output			loutp	ut current	(A)	100		
	Autor Autor								
	Low voltage protect voltage (VDC)	-	175.4						
	High voltage protect voltage (VDC)		248.0						
	Efficiency		>98%						
	Protect function				Charge over-current, over-voltage/DC output low voltage/high voltage/over-current .,etc				
	Fan starting temperature				>45°C				
	Operating temperature				0-40°C				
	Storage temperature				-15 - +50°	С			
	Operating/storage environment	(	0-90% no condensation						

Technical Specificati	ons		4	Be	Smart	Be Gre	en			
	Tal	ole 1- (	60A-2	Input)						
Model				P19250						
Rated power (W)				.6K						
Rated charge current (A)			5	0A						
Rated battery voltage (VDC)				92VDC						
Solar input		Max. PV	V voltage	e (VDC)	4	≤350				
Charge voltage range (VDC)	•		1	60-350						
2 inputs		SOLAR	1	SOLAR2						
Max. power for each input (Wp)		4.8K		4.8K						
Max. input current for each input (A)		25			2	25				
Overcharge protect voltage (VDC)			2	223.9						
Overcharge recovery voltage (VDC)			2	19.2						
DC output		Rated o	output cu	arrent (A	<i>d</i> ) [	50				
Low voltage protect voltage (VDC)			1	75.4						
High voltage protect voltage (VDC)			2	48.0						
Efficiency				>98%						
Protection					er-current,					
						put low volt	age/high			
				voltage/over-current ,etc						
Fan starting temperature				>45°C -40°C						
Operating temperature				15 - +50°	2					
Storage temperature Operating/storage environment					_ condensati	on				
Product size: W*D*H (mm)				Customized						
	Tab	le 2-(	100A-4	Input)						
Model				P-192100	)					
Rated power (W)				19.2K						
Rated charge current (A)		100								
Rated battery voltage (VDC)				192						
Solar panel input		Мах	k.solar in	ar input (VDC) ≤350						
Charge voltage range (VDC)		4		160-35						
4 solar input Max power for each solar input (Wp)	SOLAR	.1	SOLAI 4.8K	{2	SOLAR3 4.8K		SOLAR4 4.8K			
· · ·	25		25		25		25			
Max input current for each solar input (A)	25		25	25			25			
Overcharge protect voltage (VDC)				223.9						
Overcharge recovery voltage (VDC)				219.2						
DC output		Rate	ed outpı	it current	(A)	100				
Low voltage protect voltage (VDC)			1	75.4						
High voltage protect voltage (VDC)				248.0						
Efficiency				>98%						
Protect function				Charge over-current,						
				over-voltage/DC output low voltage/high voltage/over-current .,etc						
Fan starting temperature				>45°C						
Fan starting temperature					0-40°C					
				-40°C		-15 - +50°C				
Operating temperature					°C					
Fan starting temperature Operating temperature Storage temperature Operating/storage environment			-1	15 - +50°	C condens	ation				

Low voltage protect voltage (VDC)	
High voltage protect voltage (VDC)	
Efficiency	
Protect function	

Fan starting temperature
Operating temperature
Storage temperature
Operating/storage environment
Product size: W*D*H (mm)



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