DENRYO Expand Electrification Life for You

Solar Charge Controller Solar Amp B

Japanese Patent Applied 2013-035410

🕕 he World's Lightest & Compact

SolarAmp B is the lightest controller in the world. The appearance is just as a business card and beautiful, so that you could make your control box smaller.

Simple Installation

SolarAmp B is very simple to use. Do not need any setting. Just connect to photovoltaic module, battery and DC load.

bow Self-Consumption

The self-consumption current of **SolarAmp B** is about 2mA. This contributes to the long-term stabilization and performance increase of your PV systems.

Rich Protection Circuitry

- High Voltage Protection
- Overload Protection
- Over Discharge Protection
- Short-circuit Protection
 Surge Protection
- High Temperature Protection
 Reverse Polarity Protection
 - arity Protection

Various Product Lineup

You can choose the best from four models according to the system voltage(12V/24V), load operation, and capacity.

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Maximum Control Curren & Load Operati	System Voltage	12V	24V
10A	Always ON	SA-BA10	SA-BB10
	Dusk To Down	SA-BC10	SA-BD10
20.4	Always ON	SA-BA20	
20A	Dusk To Down	SA-BC20	

Over Discharged Battery Recovery

SolarAmp B has the battery recovery function. This is convenient for the system in areas where routine maintenance is difficult.

Night Lighting Control Function

SolarAmp B turns on the light from dusk to down automatically. This function is appropriate with solar lighting system such as solar streetlights and solar gate lights.

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TURN OFF the LIGHT				TURN ON th	ne LIG	нт	
SUNRIZE	DAY	SUN	SET	NIGH	IT	SUNRIZE	

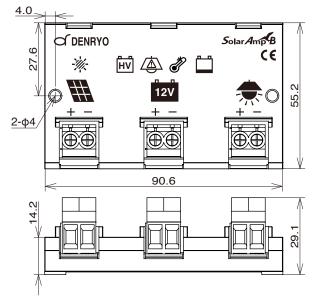
ED Indication

SolarAmp B has 5 LEDs(3 colors) to indicate charging status, battery status, and load status.

	LED/Color			Indic	ation	Status		
	1	Ňŗ.	Charging	GRN	Flashing		Charging	
					Solid		Full Battery(Charging)	
	LED/Color			Indic	ation	Charging Status	Load Status	
	2	ΗV	High Volatage	RED		Solid	OFF	OFF
	(3)		Over Load	RED		Flashing	OFF	OFF%1
	0					Solid	OFF	OFF
	(4)	ð	High Temp.	YEL	; ;;	Flashing	ON*²	ON
-	\bigcirc				•	Solid	OFF	ON
	5	Ĵ	Low Volatage	YEL	; ;;;	Flashing	ON	ON
					•	Solid	ON	OFF

 The load is reconnected automatically by every 3 seconds in 10 minutes. If over load remains, LED become solid; and disconnects
 The bulk charging current is limited to 80%







SolarAmp B is in use for many stand alone PV systems such as solar home system in remote area and solar street light and measuring system with PV.





Specifications

Model		SA-BA10	SA-BC10	SA-BA20	SA-BC20	SA-BB10	SA-BD10			
System Voltage			12	2V		24V				
Max. Input Voltage			2	ōV		50V				
Min. Input Battery Voltage			6	V		8V				
Max. Input Current		10	A	2	0A	10A				
Max. Load Current Self-consumption Current		10	A	20A			10A			
		2mA (Typical)								
Load Operation		Always ON	Dusk to Dawn	Always ON	Dusk to Dawn	Always ON	Dusk to Dawn			
Charging Algorithm				3-stage (Bulk, A	Absorption, Float)					
Bulk Charging Voltage			14	.4V		28	.8V			
Float Charging Volt	age		13	.7V		27.4V				
High Voltage Protection			18	3V		36V				
Over	Warning		11.8V				23.6V			
Discharge	Error		11.5V				23V			
Protection	Recovery		12	.5V		25V				
High Temp. Protection Battery Type			60	℃ (Waring) /80℃ (Error) /60°C (Recove	vvery)				
		Lead Acid Battery								
Wire Size	Maximum	#12AWG		#10AWG		# 12AWG				
WIIE SIZE	Minimum	#18AWG		#12AWG		# 18AWG				
Grounding				Positive	Positive Ground					
Temperature Coefficient			−30mV/℃ −30mV/℃				nV/℃			
Operation Temperature		−20°C to +60°C								
Storage Temperature		−30°C to +70°C								
Humidity		5 to 95%RH (non-condensing)								
Dimensions (W x H x D)				91×55	91×55×29mm					
Weight		65	g	7	0g	65g				
Certifications				CE	RoHS					

Specifications and appearance are subject to change without prior notice.

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