GSR 12/24V Charge controller

IN DETAIL

- MPPT step-up recharge
- Large tension range on panel entrance Vp = 2.0V Vbatt
- Battery tension 12V / 24V with dipswitch sortable
- For Pb and Lithium ions batteries with dipswitch sortable
- Temperature compensated Charge voltage
- Over temperature protection
- Protection for battery polarity inversion
- IP 20 plastic case in ABS

• Load terminal can be programmed for lighting systems

12 v -24 v Pb Lithium





For more details we invite you to visit our website: www.giocosolutions.com and follow the installation procedure in the products form, available to download.



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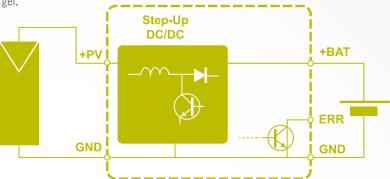
CHARACTERIZATION

GSR 12/24 is a charge controller with MPPT technology STEP UP. The charging circuit of the battery does work the flexible photovoltaic modules Giocosolutions in the maximum power point in a voltage range that starts from 2.0V up to the battery voltage due to the innovative circuit STEP UP Giocosolutions.

The battery can be both 12V and 24V, the controller is able to automatically riconoscre the battery voltage. The GSR 12/24 can be configured to charge lead-acid batteries (charge voltage temperature compensation) and lithium-ion battery (eg LiFePo4).

Two LEDs on board the GSR 12/24 indicate the operational status of the system, a green LED indicates the charging current delivered to the battery,

while an amber LED indicates the condition of the battery charger.



ELECTRICAL CHARACTERISTICS

		TENSIONE NOMINALE BATTERIA 36V			TENSIONE NOMINALE BATTERIA 48V		
		Min	Tip	Max	Min	Tip	Max
BATTERY VOLTAGE	VBATT	10.6V		16V	21.2V		32V
OPEN-CIRCUIT VOLTAGE OF PANEL	VPAN	2.0V	-	Vbatt	2.0V	-	Vbatt
PANEL CURRENT	IPAN	-	-	12.0A	-	-	12.0A
MAXIMUM POWER OF PANEL	PMAX	-	-	95W	-	-	190W
MAXIMUM CHARGE CURRENT	ICH-MAX	-	-	6.5A	-	-	6.5A
END-CHARGE VOLTAGE AT 25 ° C PROGRAM PB SW2 OFF (DEFAULT)	VCH_PB	-	14.4V			28.8V	
COMPENSATION VCH FUNCTION OF THE TEMPERATURE OF THE BATTERY (TBATT)	VTADJ	-	-24MV/°C	-	-	-48MV/°C	-
END-CHARGE VOLTAGE AT 25 ° C PROGRAM LITHIUM SW2 ON	VCH_LI	-	14.4V	-	-	28.8V	-
LOW BATTERY VOLTAGE WARNING	VLB_PB	-	11.1V	-	-	22.2V	-
VOLTAGE OUTPUT SIGNAL LOW BATTERY	VOUT_LB_PB	-	VCH_PB-0.4V	-	-	VCH_PB-0.8V	-
SELF CONSUMPTION	VLB-LI	-	12.5V	-	-	25.0V	-
OPERATING TEMPERATURE	VOUT_LB_LI	-	VCH_LI-0.4 V	-	-	VCH_LI-0.4V	-
POWER DISSIPATION	ILOAD		-	5A	-	-	5A
SECTION TERMINALS	VLOAD	-	VBATT	-	-	VBATT	-
DEGREE OF PROTECTION	ISLEEP	-	-	15MA	-	-	10MA
BODY MATERIAL	TAMB	-10°C		50°C	-10°C		50°C
WEIGHT	PDISS			2 W			2 W
BATTERY VOLTAGE	η	97%	-	-	97%	-	-
OPEN-CIRCUIT VOLTAGE OF PANEL		1MM ²		2.5 ^M M	1MM		2.5MM
PANEL CURRENT			IP20			IP20	
MAXIMUM POWER OF PANEL				ABS			
MAXIMUM CHARGE CURRENT		-	185 G	-	-	185 G	-



