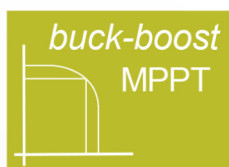


TXR 12/24V Charge controller

IN DETAIL

- MPPT step-up recharge
- Large tension range on panel entrance $V_p = 2.0V - V_{batt}$
- 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
- IP20 metal box



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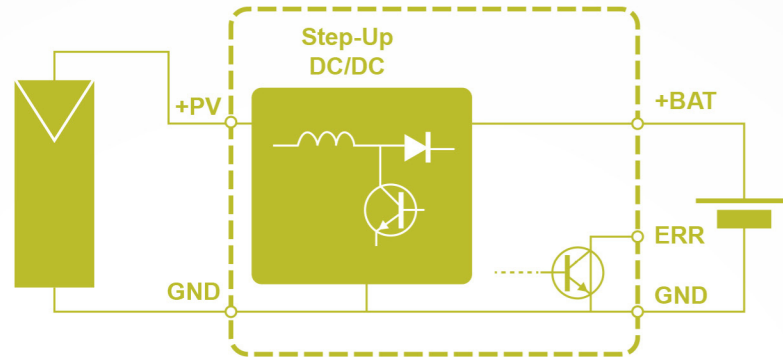


CHARACTERIZATION

GSR 12/24 is a charge controller with MPPT technology STEP UP. The charging circuit of the battery does work the flexible photovoltaic modules **enea** 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

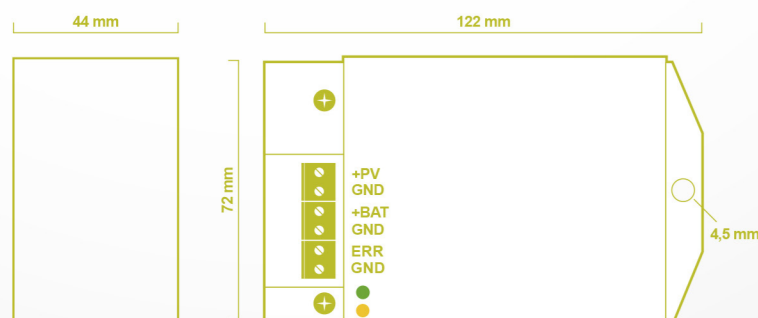
The battery can be both 12V and 24V, the controller is able to automatically riconoscre the battery voltage. The GSR 12/24 can be configured to charge lead-acid batteries (charge voltage temperature compensation) and lithium-ion battery (eg LiFePo4).

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

		NOMINAL TENSION BATTERY 12V			NOMINAL TENSION BATTERY 24V		
		Min	Tip	Max	Min	Tip	Max
BATTERY VOLTAGE	VBATT	10V		17V	20V		34V
OPEN-CIRCUIT VOLTAGE OF PANEL	VPAN	2.0V	-	34.0V	2.0V	-	34.0V
PANEL CURRENT	IPAN	-	-	18.0A	-	-	18.0A
MAXIMUM POWER OF PANEL	PMAX	-	-	80W	-	-	160W
MAXIMUM CHARGE CURRENT	ICH-MAX	-	-	6,0A	-	-	6,0A
END-CHARGE VOLTAGE AT 25 ° C PROGRAM PB SW2 OFF (DEFAULT)	VCH		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	-	14.4V	-	-	28.8V	-
LOW BATTERY VOLTAGE WARNING	VLB	-	11.1V	-	-	22.2V	-
VOLTAGE OUTPUT SIGNAL LOW BATTERY	VOUT_LB	-	13.5V	-	-	26.9V	-
SELF CONSUMPTION	ISLEEP	-	8.6MA (VBAT 13,0V)	-	-	11.5MA (VBAT 26,0V)	-
OPERATING TEMPERATURE	TAMB	-10°C		50°C	-10°C		50°C
POWER DISSIPATION	PDISS			8 W			16 W
SECTION TERMINALS		1MM2		2.5MM ²	1MM2		2.5MM ²
DEGREE OF PROTECTION			IP20		IP20		
BODY MATERIAL		POLISHED INOX STEEL 430					
WEIGHT		-	250 G	-	-	250 G	-



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