



SolarTank Storage system

Singlephase/Threephase

CARATTERISTICS

Solar Tank is an intelligent electronic device which allows you to accumulate the energy in excess produced by a photovoltaic residential system and then deliver it when needed.

It consists of a double DC / DC converter comprising a charger section of photovoltaic modules with a fully programmable battery pack and of booster pack section grid tied inverter to battery.

Everything happens on the logic of information sent by a mains power sensor installed between the framework electric house and the exchange counter

FUNCTIONALITY'

Compatible with almost all the on-grid inverter with conventional MPPT and 48 V battery packs trade, allows for maximum flexibility in retrofit the components of an existing plant and the choice of new plants. Available in single-phase version and for three-phase systems up to 40 A per phase.

When Psun> Pload (by day) the batteries are single loaded the excess energy, favoring always direct the power to the loads.

When Psun <Pload (at night or cloudy) loads are powered by the energy stored in the battery to a maximum power of 1500 W.fully operational in DC.

Models	Solar Tank	Solar Tank
	singlephase	threephase
PV input DC		
Input DC voltage (V)	150 ÷ 600	
Max input current (A)	16	
Max input power (W)	6000	
Number of input	1	
Input connession type	cable clamp screw terminal bl	lock + 1 pair MC4 connectors
Output to inverter		
Output current (A)	10)
Output voltage (V)		
Output voltage range (V)	150 ÷	· 600
Max output power (W)	1500 (C10 suggested)	1500 totali (C10 suggested)
Output connession type	cable clamp screw terminal bl	lock + 1 pair MC4 connectors
Output protection	extrarapid fuse	6.3x32, 10 A FF
Input/output to battery	extrarapiarabe	()
Loading voltage (V)	45	2
Allowed capacity (Ab)	100 ÷	. 450
Charge cycle voltage range (V)		-50
Max input current (A)		- 02 1
Charge (discharge speed	C10 (depending battery)	producer coecification)
Charge/discharge speed	CIO (depending battery	
Protection to battery	n. 3 luse 6.3	
Connession to battery	cable clamp screw term	Inal block on the board
		~
Max efficiency	99	%
Complete charge	Deep recharge to 100% with	in 18hours of continuos sun
Stand-by self consumption	100 mA	A - 5 W
Enviromental Performance		
Temperature (°C)	-20 ÷	+50
Umidity	0 ÷ 9	95%
Max altitude without derating (mslm)	300	00
Derating temperature (°C)	70	0
Noise (dB)	73	3
Degree of protection	IP2	20
Physical caratteristic		
Dimension (H x L x P)	339 x 25	6 x 141
Weight (kg)	6	i
Body	coated alumi	num powder
Installing method	wall br	acket
Cooling	fan + he	eatsink
Sensors input		
Grip power input	n. 1 analogic input 3 x 0,5	n. 3 analogic input 3 x 0,5
Load power input	n. 1 analogic	input 3 x 0,5
Type of sensors	TA/TV sampling every 20	ms. Mac power 8000 W
Battery temperature sensor	n. 1 ii	nput
Communication		
Configuration/installation interface	n. 1 RS48	85 port
User monitoring interface	n. 1 LAN ETHER	RNET Rj45 port
Software and configuration		
Rapid configuration	n. 4 dip	switch
Advance configuration	installer SW 1Phase	installer SW 3Phase
Instant user monitoring	user monit	oring SW
Certification		
CF		
CEL-021 Conformity		1 V1 2ed
EMC conformity	yes cel 0-2	
Category of storage system	Monodiroctional	production side
Warranty	wonourectional	
Warranty	24	onth
waitaily	24 mi	
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