



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
iviodeis	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 block + 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 block + 1 pair MC4 connectors
Output protection	extrarapid fuse 6,3x32, 10 A FF
Input/output to battery	
Loading voltage (V)	48
Allowed capacity (Ah)	100 ÷ 450
Charge cycle voltage range (V)	35 ÷ 62
Max input current (A)	30
Charge/discharge speed	C10 (depending battery producer specification)
Protection to battery	n. 3 fuse 6.3X32 T10AH
Connession to battery	cable clamp screw terminal block on the board
Operational performance	casic damp screw terminar slock on the source
Max efficiency	99%
Complete charge	Deep recharge to 100% within 18hours of continuos sun
Stand-by self consumption	100 mA - 5 W
Enviromental Performance	100 IIIA - 3 W
Temperature (°C)	-20 ÷ +50
Umidity	0 ÷ 95%
Max altitude without derating (mslm)	3000
Derating temperature (°C)	70
Noise (dB)	73
Degree of protection	IP20
Physical caratteristic	IP20
Dimension (H x L x P)	339 x 256 x 141
Weight (kg)	6
Body	coated aluminum powder
Installing method	wall bracket
Cooling	fan + heatsink
Sensors input	Tall + HeatSlilk
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 n. 1 analogic input 3 x 0,5
·	TA/TV sampling every 20 ms. Mac power 8000 W
Type of sensors	
Battery temperature sensor	n. 1 input
Communication Configuration (installation interface)	2 1 DC405 224
Configuration/installation interface	n. 1 RS485 port
	m 4 JANIETHEDNIET DIAG
User monitoring interface	n. 1 LAN ETHERNET Rj45 port
Software and configuration	
Software and configuration Rapid configuration	n. 4 dipswitch
Software and configuration Rapid configuration Advance configuration	n. 4 dipswitch installer SW 1Phase installer SW 3Phase
Software and configuration Rapid configuration Advance configuration Instant user monitoring	n. 4 dipswitch
Software and configuration Rapid configuration Advance configuration Instant user monitoring Certification	n. 4 dipswitch installer SW 1Phase user monitoring SW
Software and configuration Rapid configuration Advance configuration Instant user monitoring Certification CE	n. 4 dipswitch installer SW 1Phase user monitoring SW yes
Software and configuration Rapid configuration Advance configuration Instant user monitoring Certification CE CEI-021 Conformity	n. 4 dipswitch installer SW 1Phase user monitoring SW
Software and configuration Rapid configuration Advance configuration Instant user monitoring Certification CE CEI-021 Conformity EMC conformity	n. 4 dipswitch installer SW 1Phase installer SW 3Phase user monitoring SW yes yes yes CEI 0-21 V1 2ed. yes
Software and configuration Rapid configuration Advance configuration Instant user monitoring Certification CE CEI-021 Conformity EMC conformity Category of storage system	n. 4 dipswitch installer SW 1Phase installer SW 3Phase user monitoring SW yes yes yes CEI 0-21 V1 2ed.
Software and configuration Rapid configuration Advance configuration Instant user monitoring Certification CE CEI-021 Conformity EMC conformity	n. 4 dipswitch installer SW 1Phase installer SW 3Phase user monitoring SW yes yes yes CEI 0-21 V1 2ed. yes