G.Store

THE HYBRID SYSTEM WITH INVERTER FOR NEW PHOTOVOLTAIC PLANTS

« Wall Mounted »

1. **G.Store is** a hybrid system with Inverter for **the new or older photovoltaic plants**
2. **G.Store is** a Solution for storing the excess electrical energy for use in the evening, night, or day instead of Injecting it into the network, thus **maximizing the consumption**
3. **G.Store is** equipped with **Lithium-iron-Phosphate batteries scalable** from 4.8 to 19.2Kwh x3 with deliverable power from 2.500 to 5.000 W
4. **G.Store is** able to power Consumers In case of Blackout (**EPS mode**) and gives continuity to photovoltaic production
5. **G.Store** comes with a **Free Monitoring System** valid for the lifespan of the device
6. **G.Store is designed and manufactured in Italy**
7. **G.Store is** Compliant with UK regulations (see datasheet) ▪ Dimensions (LXWXH): 500x200x485

V.1/2018

ATON S.R.L. The legal address: Via Nuova Circonvallazione, 57/B - 47923 Rimini RN
Sede Operativa: Via Guido Rossa, 5-41057 Spilamberto (MO)-Phone: + 39 059/783939 Fax: + 39 059/784323 Email: Info@atonstorage.com Web site: Www.atonstorage.com

THE SYSTEM INCLUDES

TELEASSISTANCE Telecontrol System via web **Free** for the lifespan of the device

MONITORING SYSTEM **Monitoring System** Via **App** Viewed from PC, tablet and smartphone for both the installer and the user **Free** for the lifespan of the device

WARRANTY **10 years on the complete machine.**

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TECHNICAL DATA SHEET

MODEL	ATG-3k-TL-P	ATG-4k-TL-P	ATG-5k-TL-P
DC Input			
Type of Power Supply	Sinusoidal Single Phase	Sinusoidal Single Phase	Sinusoidal Single Phase
DC [W]	4000	4600	6000
MAX input Voltage DC [V]	580	580	580
Voltage Range MPP V	125-550	125-550	125-550
Max current for each input DC [A]	11	11	11
Max short-circuit current for each input DC [A]	13.8	13.8	13.8
Number of Independent Inputs MPP	2	2	2
Max power to battery W	3125	3750	5000
AC Output			
Type of Power Supply	SinGle Phase Sinusoidal	SinGle Phase Sinusoidal	SinGle Phase Sinusoidal
Max Power at output W	3000	3680	4600
Nominal Voltage V	230	230	230
Nominal Frequency Hz	50/60	50/60	50/60
Max Current at output A	14	16	24.5
Distortion Factor THDi	< 3%	< 3%	< 3%
Adjustable phase shift factor	0.8 overexcited 0.8 underexcited	0.8 overexcited 0.8 underexcited	0.8 overexcited 0.8 underexcited
Contribution to short-circuit current A	21	24	36.5
Battery			
Type of battery	LiFePO4	LiFePO4	LiFePO4
Nominal Voltage V	48	48	48
Max Charging Current A	62.5	75	100

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Minimum Number of batteries[1]	0	0	
Max Discharge Current A	62.5	75	0 100
DoD %	80%	80%	80%
Min Number of working cycles @ 25 °c	>4500->8000, for details please refer to the Pylontech battery datasheet		
Max Number of batteries	6	6	6
Max Storable Energy KWh[1]	15	15	15
Efficiency			
Max Efficiency of conversion	95.5%	95.5%	95.5%
Protections			
Anti-Islanding	Yes	Yes	Yes
Surge protection	Yes	Yes	Yes
Protection for short-circuit output	Yes	Yes	Yes
Overheating Protection	Yes	Yes	Yes
Ac Lines Protection	No	No	No
Battery Protection	No	No	No
General data			
Normal working temperature [°c]	from -10 to + 50	from -10 to + 50	from -10 to + 50
	High frequency	High frequency	High frequency
Relative humidity	0 ÷ 95%	0 ÷ 95%	0 ÷ 95%
Max Altitude M	< 4000	< 4000	< 4000
Cooling	Natural Fanless	Natural Fanless	Natural Fanless
Noise DB	< 25	< 25	< 25
Weight kg (with standard No of batteries)	85	85	109
Dimensions [W x L x H]	510x175x610	510x175x610	510x175x610
Mounting	Wall	Wall	Wall
Grade of protection	IP20	IP20	IP20

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Grade of pollution	4	4	4
Environmental working conditions	Indoor	Indoor	Indoor
Surge category AC	III	III	III
Topology of inverter	isolated	isolated	isolated
Surge category DC	II	II	II
Terminals Clamping Torque Nm	1.7	1.7	1.7
Ground connections	Not allowed	Not allowed	Not allowed
Required protection on PV side (DC)	Spd	Spd	Spd
Minimal resistance of ground insulation (Vdc Test: 1000 Vdc) [MΩ]	1	1	1
Interface			
GPRS (Standard)	2g Dual Band	2g Dual Band	2g Dual Band
Wi-Fi (Optional)	2.4 GHz IEEE STD. 802.11 b/g	2.4 GHz IEEE STD. 802.11 b/g	2.4 GHz IEEE STD. 802.11 802.11 b/g
Certifications	CE, CEI0-21/2017, VDE-AR-N4105, NotI-RES _ 13th, VDE 0124-0126	CE, CEI0-21/2017, VDE-AR-N4105, ERDF- NotI-RES _ 13th, VDE 0124-0126	CE, CEI0-21/2017, VDE-AR-N4105, ERDF- NotI-RES _ 13th, VDE 0124-0126
Safety Norms	IEC62477 & IEC62040	IEC62477 & IEC62040	IEC62477 & IEC62040

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Compatibility EMC	EN61000-6-1, en61000-6-2, en61000-6-3, en61000-6-4	EN61000-6-1, en61000-6-2, en61000-6-3, en61000-6-4	EN61000-6-1, en61000-6-2, en61000-6-3, en61000-6-4
LAN (Optional)	10/100 Mbps	10/100 Mbps	10/100 Mbps

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