The AC RETROFIT Storage system

"Wall Mounted"

- **Z.Store is** an AC side storage system that **works in the presence and absence of a photovoltaic system**
- **Z.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**
- **Z.Store is** equipped with **Lithium-iron-Phosphate batteries scalable** From 2.4 to 38.4 Kwh with deliverable power from 2,500 to 5,000 W
- **Z.Store is** able to supply consumers in case of blackout (**EPS mode**) and gives continuity to photovoltaic production
- **Z.Store comes** with a **free monitoring system** for the lifespan of the device
- **Z.Store is** designed and manufactured in **Italy**
- **Z.Store is** compliant with UK regulations (see Datasheet)
- Dimensions (WxDxH) : 500x200x485

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ATON S.R.L. The legal address: Via Nuova Circonvallazione, 57/B - 47923 Rimini RN
Sede Operativa: Via Guido Rossa, 5-41057 Spilamberto (MO)-Tel: + 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 Via **App** Viewable from PC, tablet and smartphone for both the installer and the user **Free** for the lifespan of the device

Warranty **10 years on complete machine** Linked to Telecontrol via web

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ATON GREEN STORAGE

Z.Store

Technical Data Sheet

INVERTER

Model	ATZ3K	ATZ4K	ATZ5K
AC output (On-Grid)			
Type of power supply	Sinusoidal single phase		
Nominal calculated discharge power VA	3000	3680	4600
Nominal calculated charge power VA	3000	3680	4600
Max effective power in discharge VA	3000	3680	4600
Max effective charging power VA	6000	7360	9200
Nominal Voltage [V]	230		
Nominal Frequency [Hz]	50/60		
Max discharge current A	14	16	20
Max charge current A	28	32	40
Adjustable phase shift factor	0.8 overexcited - 0.8 under-excited		
Distortion factor THDi	< 3%		
AC output (EPS-Back up)			
Type of power supply	Sinusoidal single phase		
Nominal calculated discharge power VA	3000	3680	4600
Effective peak discharge power (10 sec) VA	3600	4416	5500
Nominal Voltage [V]	230 (+/-2%)		
Nominal Frequency [Hz]	50/60 (+/-0.2%)		
Max discharge current A	13.1	16.0	22.8
Distortion factor THDi	< 3%		
Battery			
Type Battery	LiFePO4/Pb		
Nominal Voltage [V]	48		
Max charging current A	62.5	75	100
Max discharge current A	62.5	75	100
Min N° of Battery Modules	0		
Max N° of Battery Modules	8		

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Max storable energy in max capacity KWh	19.2
Efficiency	
Max efficiency	97.6%
Max Battery efficiency during charging	94.5%
Efficiency EURO	97.0%
Protections	
Anti-islanding	Yes
Power surge protection	Yes
Short circuit protection at the output	Yes
Power surge protection at the output	Yes
Overheating Protection	Yes
AC lines protection	Non
Battery lines protection	With Fuse
General data	
Normal working temperature [°c]	from-25 to + 60
Inverter topology	High frequency battery side insulated
Relative humidity	0% ÷ 95%
Max Altitude M	< 4000
Cooling	Natural Convection
Noise DB	< 25
Inverter weight Kg	18
Inverter Dimensions [W x D x H]	347x175x432
Mounting	On the wall
Grade of protection	IP20
Grade of pollution	3
Environmental Employment Conditions	Indoor
AC surge category	III
Terminals Clamping Torque Nm	1.7

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Certifications	
Certifications	CE, CEI0-21/2017, VDE-AR-N4105, ERDF-NOI-RES _ 13th, VDE 0124-0126
Safety standards	IEC/EN62109-1 & 2, IEC62040-1
EMC compatibility	EN61000-6-1, en61000-6-2, en61000-6-3, en61000-6-4

Batteries

Battery model	SBATLIT94A-48v
Battery	
Battery type	LiFePO4
Brand	Pylontech
Model	US2000B
Nominal voltage [V]	48
Nominal capacity [KWh]	2.4
Max Charge Current A	35 *
Max Discharge Current A	15h
DoD%]	80%
Min. No of working cycles @ 25 °c, DoD 80%	>6000
General Data	
Working temperature in discharge operation [°c]	From 0 to + 50
Humidity	0 ÷ 95%
Max Altitude Mr	< 4000
Cooling	Natural fanless
Noise DB	< 25
Weight Kg	24
Dimensions [W x D x H]	483x435x89
Mounting	19 "Rack
Grade of protection	IP20

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Grade of pollution	3
Environmental working conditions	Indoor
Certifications	
Certifications	CE TÜV/IEC62619
Transport Norms	An 38.3

(*) May be limited by the inverter and/or by the BMS

Container model	WALL-BOX-B
Max N ° Batteries	2
Dimension [W x D x H]	500x200x485
Weight without batteries [Kg]	14

Control Section Technical Data

Model	**ATM-BOX**
Operating interface	
Display (only for the operator)	Graphic 128x64 Backlit.
Keyboard (only for operator)	4 Buttons
Reporting Led	3
Communication interface	
Wi-Fi (standard)	2.4 GHz IEEE STD. 802.11 b/g
GPRS (optional)	2g Dual Band
LAN (optional)	10/100 Mbps
Communication with Local /Remote Network operators, Distributors, aggregators etc... (Optional)	Yes
Communication in EN61850 (predisposition)	Yes
DGeneral ATA	
Working temperature [°c]	from -25 to + 60

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Relative humidity	0 ÷ 95%
Max Altitude [m]	< 4000
Cooling	Natural Fanless
Noise DB	< 25
Weight Kg	5.5
Dimensions [W x D x H]	347x135x275
Montage	Attached to the inverter
Dimensions with inverter [W X D X H]	347x175x665
Weight with Inverter Kg	23.5
Grade of protection	IP20
Grade of pollution	3

Environmental Employment Conditions	Indoor
Certifications	
Certifications	CE

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