The AC RETROFIT Storage system

- Zon.**E is** an AC side storage system that **works in the presence or absence of a photovoltaic system**
- Zon.**E** is the solution that allows those who have an **existing** photovoltaic installation to store the energy for use during the evening, at night, or during the day instead of injecting it into the network, thus **maximizing the consumption**
- Zon.**E is** an **integrated system "All-In-one "** which elements are contained in a single elegant cabinet available in different colours
- Zon.**E is** equipped with **Lithium-iron-Phosphate batteries scalable** from 2.4 to 38.4 kWh with deliverable power from 2,500 to 4,600 W Ac
- Zon.**E is** able to power users in case of blackout (**EPS mode**)
- Zon.**E comes** with a **free monitoring system** for the lifespan of the device
- Zon.**E is** complying with UK regulations (see datasheet)
- Zon.**E is** designed and produced in **Italy**
- Dimensions (WxHxD – cm): 58x101x52

V.1/2018

ATON S.R.L. The legal address: Via Nuova Circonvallazione, 57/B - 47923 Rimini RN
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The system includes

Teleassistance System of Telecontrol Via web **Free** for the lifespan of the device

Monitoring System Via **App** viewable on PC, Tablet and smartphone for both the installer and the user – Free for the life span of the device

Warranty **10 years on the complete machine** linked to the Telecontrol Via web

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ATON GREEN STORAGE

Zon.E

Technical Data Sheet

Model	ZN3K 2.5 L	ZN4K5L	ZN5K5L
Data output AC (on-Grid)			
Type of power supply	Single-Phase sinusoidal	Single-Phase sinusoidal	Single-Phase sinusoidal
Calculated discharge nominal power [VA]	3000	3680	4600
Apparent nominal charging power [VA]	3000	3680	4600
Calculated discharge Max power [VA]	3000	3680	4600
Calculated Max charging power [VA]	6000	7360	9200
Nominal voltage [V]	230	230	13S
Nominal frequency [Hz]	50/60	50/60	50/60
Max discharge current [A]	14	16	20
Max charge current [A]	28	32	40
Adjustable phase shift factor	0.8 Over-excited 0.8 Underexcited	0.8 Over-excited 0.8 Underexcited	0.8 Over-excited 0.8 Underexcited
Distortion factor THDi	< 3%	< 3%	< 3%
AC output (EPS-Back up)			
Type of power supply	Single-Phase sinusoidal	Single-Phase sinusoidal	Single-Phase sinusoidal
Calculated discharge Max power [VA]	3000	3680	4600
Calculated peak discharge power (10 sec) [VA]	3600	4416	5500
Nominal voltage [V]	230 (+/-2%)	230 (+/-2%)	230 (+/-2%)
Nominal frequency [Hz]	50/60 (+/-0.2%)	50/60 (+/-0.2%)	50/60 (+/-0.2%)
Max discharge current [A]	13.1	16	22.8
Distortion factor THDi	< 3%	< 3%	< 3%
Battery			
Battery Type	LiFePO4	LiFePO4	LiFePO4
Nominal voltage [V]	48	48	48

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Max charging current [A]	62.5	75	100
Max discharge current [A]	62.5	75	100
N ° battery Modules in standard configuration	1	2	2
Maximum storable energy [KWH]	2.4	4.8	4.8
Usable energy [KWH]	1.92	3.84	3.84
DoD %	80%	80%	80%
Min No of working cycles@ 25 °c	>4500->8000, for details please refer to the Pylontech battery datasheet		
N ° battery modules at the max capacity [1]	4	4	4
Max Storable energy at max capacity [KWh] [1]	9.6	9.6	9.6
Efficiency			
Max conversion Efficiency	95.5%	95.5%	95.5%
Protections			
Anti-islanding	Yes	Yes	Yes
Surge Protection	Yes	Yes	Yes
Short-circuit Protection at the exit	Yes	Yes	Yes
Overheating Protection	Yes	Yes	Yes
Protection AC Lines	Magnetothermic Autom Switch	Magnetothermic Autom Switch	Magnetothermic Autom Switch
Battery Protection	Magnetothermic Autom Switch	Magnetothermic Autom Switch	Magnetothermic Autom Switch
General data			
Temperature Range for normal operation [°c]	from -5 to + 45	from -5 to + 45	from -5 to + 45
Inverter topology	High frequency isolated	High frequency isolated	High frequency isolated
Relative humidity	0 ÷ 95%	0 ÷ 95%	0 ÷ 95%
Max Altitude [m]	< 2000	< 2000	< 2000
Cooling	Natural Convection (Fanless)	Natural Convection (Fanless)	Natural Convection (Fanless)
Noise [DB]	< 25	< 25	< 25
Inverter weight (standard battery No.) [Kg]	81	104	104

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[1] Expandable to 19.2 KWh With N. 2 Module Expansion (4 battery modules).

Inverter Dimensions [L x W x H]	590x485x965	590x485x965	590x485x965
Mounting	On the ground	On the ground	On the ground
Degree of protection	IP20	IP20	IP20
Interfacce			
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 b/g
LAN (optional)	10/100 Mbps	10/100 Mbps	10/100 Mbps
Wireless Home automation (optional)	EnOcean 868 MHz	EnOcean 868 MHz	EnOcean 868 MHz
Certifications and standards			
Certifications	CE, CEI0-21/2017, VDE-AR-N4105, ERDFNOI-RES _ 13th	CE, CEI0-21/2017, VDE-AR-N4105, ERDFNOI-RES _ 13th	CE, CEI0-21/2017, VDE-AR-N4105, ERDFNOI-RES _ 13th
Safety standards	IEC62477 & IEC62040	IEC62477 & IEC62040	IEC62477 & IEC62040
EMC compatibility	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

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