



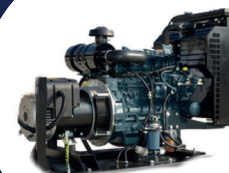
BOSTOOLS.NL

P-grid Hybrid Power Unit

160 kVA - 70 kWh - 40 kVA



34x



8x

**the benefits of a battery pack,
the reliability of a conventional generator**



Modular mobile unit



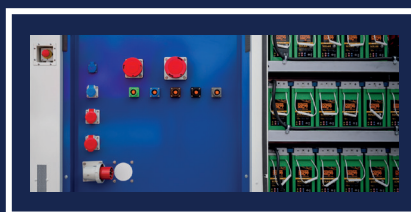
Hybrid power source



Limit fuel consumption
up to 90%



Master power peaks
without compromise



Specifications

Inverter

- ⚡ AC IN: 400V (16A/ 32A/ 63A)
- ⚡ Genset - Grid - Solar (dynamic loadcontrol)
- ⚡ DC 400V technology
- ⚡ AC OUT: 160 kVA
- ⚡ 3-phase industrial inverters
- ⚡ Pure sine wave

Genset

- ⚡ 40 kVA
- ⚡ Stage V
- ⚡ 199L diesel tank

Battery

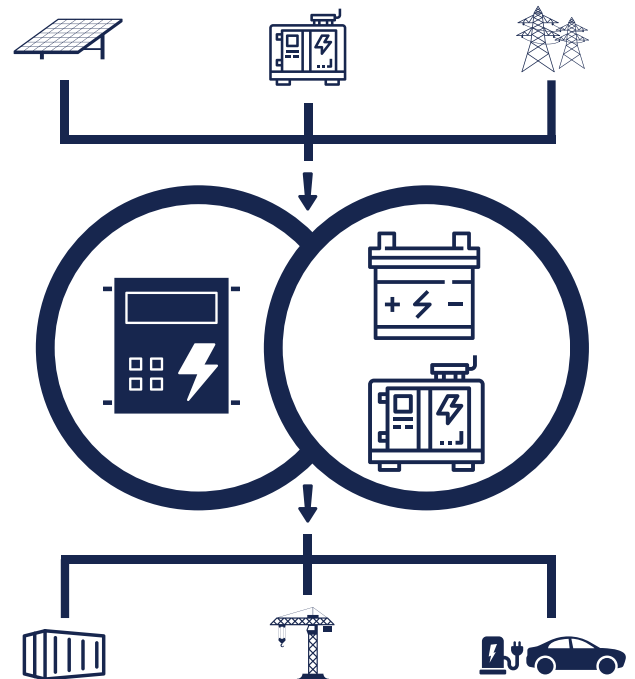
- ⚡ 50 kWh usable capacity
- ⚡ Design life: 12Y
- ⚡ Technology: AGM Lead Carbon
- ⚡ PSOC compatible
- ⚡ 2C peak discharge
- ⚡ 0,3C charge
- ⚡ No fire hazard
- ⚡ Temperature range: -20°C to 50°C

Container unit

- ⚡ Dimensions (LxWxH): 244x153x259 cm
- ⚡ Weight: 4.900 kg

Applications

Construction sites
Rental
Events
Back-up
Residential areas
Core of a microgrid



Datasheet

INVERTERS

General specifications

Manufacturer	CE+T Power
Inverter type	3-phase industrial inverters with separated input & output
Efficiency (Typical)	96% certified by SGS at 45% load
Continuous power (VA) / (W)	20 kVA / 20 kW / Bi-directional
Nominal voltage (AC)	3x380V / 400V / 415V + Neutral 5 wires
Short time overload capacity (@PF 0.9)	150% - 15s 130% - 30s 120% - 60s 110% permanent
Admissible load power factor	Full power rating from 0 inductive to 0 capacitive
Frequency / frequency accuracy	50 - 60 Hz / 0,03%
DC voltage	336 - 490V DC
DC power	20 kW bi-directional

Certificates & Approvals

Safety / Grid Interactive	EN 62040-1-1 / Synergrid: C10-11, EN50549 (up to 240 kW)
EMC (immunity)	EN 55022 (A), EN 61000-4-2/3/4/5/6/8
Functionality	VFI-SS-111

Datasheet

BATTERIES

General specifications

Manufacturer	Powerboozt
Type	LRCF 12-170
Technology	AGM Lead Carbon (PSOC compatible)
Rated Voltage	12V
Nominal capacity	170 Ah
Quantity of batteries per string	34 batteries
Short circuit current	1.706A
Max. charging current	0.3C
Self discharge	≤3,5% per month at 25°C
Cycle life	3.200 cycles at 60% DOD

Certificates & Approvals

Container material	ABS Flame Retardant Material to UL94V-0
Standards	In compliance with IEC 61427, BS EN 61427
Manufactured in	TS16949, ISO 45001, ISO 9001, ISO 14001

Datasheet

GENERATOR

General specifications

Engine	Yanmar 4TNV98C-IYE
Alternator	Leroy Somer LSA42.3S5
kW continuous	35,5 kW
Fuel consumption at 75% load	5,6 l/h
Generator controller	Deep Sea / DEIF
Type of speed control	ERPM
Protection systems	Oilpressure, Coolant temperature, Overspeed, Personal, ELCB, Circuit breaker, RCD
Fuel tank internal	Integrated fuel tank 199L
Fuel tank external	3-way tap

Certificates & Approvals

Emission regulation	Stage V
Certification	2006/42/EG, 2014/35/EU, EMC 2014/30/EU

Datasheet

CASING

General specifications

Format

5 ft. container

Dimensions

244 x 153 x 259 cm

Weight

4.900 kg

Oxidation Protection

Galvanised

Mounting system

Twistlocks with integrated lift slots

Certificates & Approvals

Certification

CE-certified

