

ENERCUBO

400/230V – THREE-PHASE / 50Hz

HYBRID POWER GENERATOR IN **CANOPY**

EQUIPPED WITH STAGE V ENGINE WITH LITHIUM BATTERY AND PHOTOVOLTAIC PANELS



UPS STORAGE



PHOTOVOLTAIC
STORAGE



VARIABLE SPEED SYSTEM

TIER IV F
LEADING THE EVOLUTION

STAGE V
LEADING THE EVOLUTION



400/230V – THREE-PHASE / 50Hz

POWER GENERATOR'S STANDARD EQUIPMENT

- Ultra-silent canopy FQ model with Variable Speed electrical fans
- 185 litres fully bunded built-in fuel tank
- Central Lifting eye
- Forklift guides
- Electric radiator in a separate compartment
- Cooling system with electric fans with Vsi Technology



HYBRID GENERATING SET		Unit	
Model			HC KL15 FQ3 V
Output Power		kW	15
P.M.G. GENERATOR		V	48 DC
Output Voltage Three Phase		V	400 / 230 AC
Fuel Tank		l	185
Fuel Consumption 70% load		l/h	3,8
Digital Control Panel			DSE 7410
Weight		kg	2380*
Dimensions (LxWxH)		mm	2500x1130x1875

Edit Table

* With 555 Ah battery mounted

ENGINE		Unit	KOHLER
Model			KDW1404
Speed			Variable
Revolutions		rpm	1200 - 2800
kWm Max		kWm	17,9 @ 2700 rpm
Regulator			Electronic
Cylinder and arrangement			4 L
Total displacement		cm³	1372
Aspiration			Natural
Emissions compliance			STAGE V**

Edit Table

** Engines Tier IV Final emission compliant are available

DISTRIBUTION PANEL	
Outlet	32 A 400V 3 Ph socket
Outlet	32 A 230V 1 Ph socket
Outlet	16 A 230V 1 Ph socket
Inlet	32 A 400V 3 Ph plug

Edit Table

LITHIUM BATTERY	Unit	BATTERY OPTIONS			
Battery voltage	V DC	48	48	48	48
Model		PJO-048 555-TCU	PJO-048 750-TCU	PJO-048 THT-TCU	PJO-048 TFH-TCU
Brand					
Manufacturing Country		Italy			
Lithium cell chemistry		LINMC			
Quantity	n	1	1	1	1
Nominal capacity	Ah	555	750	1100	1500
Nominal energy	kWh	26,6	36	53	72
Weight	kg	280	320	560	640
Charging time*	h	1,45'	2,30'	3,30'	4,50'
Roundtrip efficiency	%	>98			
Working life cycle		>5000 cycles - @ 80% DOD			

Edit Table

* Without Load



EXAMPLES OF PERFORMANCE IN BATTERY MODE WITH CONSTANT LOAD

LOAD	Unit	BATTERY OPTIONS			
		555 Ah	750 Ah	1100 Ah	1500 Ah
2kW	h	10,38'	14,20'	21,10'	28,45'
3kW	h	7,10'	9,35'	14,05'	19,10'
4kW	h	5,20'	7,10'	10,35'	14,20'
5kW	h	4,20'	5,45'	8,30'	11,30'

6kW	h	3,35'	4,45'	7,05'	9,35'
7kW	h	3,05'	4,05'	6,00'	8,15'
8kW	h	2,40'	3,35'	5,15'	7,10'
9kW	h	2,25'	3,10'	4,40'	6,20'
10kW	h	2,10'	2,50'	4,15'	5,45'

Edit Table

FEATURES OF THE HYBRID SYSTEM

- **15 kW** three-phase power generator with variable speed
- Engine **STAGE V**
- High efficiency pmg generator 48V DC
- 3 inverters (total 21kW three-phase)
- Possibility to be coupled with a photovoltaic
- Field up to 6 kW (42 kWh daily production)
- Option: min. 3 / max 21 solar modules nominal power
- 320 Wp / 21 kWp
- **Option:** solar charger
- **Option: type2** recharger for electric cars (22 kW max.)

FULL CUSTOMIZATION AVAILABLE FOR BATTERY AUTONOMY, GEN SET
POWER AND COUPLED PHOTOVOLTAIC FIELD

230V – SINGLE PHASE / 50HZ

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- 185 litres fully bunded built-in fuel tank
- Central Lifting eye
- Forklift guides
- Electric radiator in a separate compartment
- Cooling system with electric fans with Vsi Technology



HYBRID GENERATING SET		Unit	
Model			HC KL7 FQ1 V
Output Power		kW	7
P.M.G. GENERATOR		V	48 DC
Output Voltage Single Phase		V	230 AC
Digital Control Panel			DSE 7410
Fuel Tank		l	185
Fuel Consumption 70% load		l/h	1.7
Weight		kg	2380*
Dimensions (LxWxH)		mm	2500x1130x1875

Edit Table

* With 555 Ah battery mounted

ENGINE		Unit	KOHLER
Model			KDW1404
Speed			Variable
Revolutions		rpm	1200-2800
kWm Max		kWm	17,9 @ 2700 rpm
Regulator			Electronic
Cylinder and arrangement			4 L
Total displacement		cm³	1372
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5kW	h	4,20'	5,45'	8,30'	11,30'
6kW	h	3,33'	4,45'	7,05'	9,35'
7kW	h	3,05'	4,05'	6,00'	8,15'

Edit Table

FEATURES OF THE HYBRID SYSTEM

- **7 kW** single-phase power generator with variable speed
- Engine **STAGE V**
- High efficiency pmg generator 48V DC
- 1 inverters (total 7 kW single-phase)
- Possibility to be coupled with a photovoltaic
- Field up to 6 kW (42 kWh daily production)
- Option: min. 3 / max 21 solar modules nominal power
- 320 Wp / 7 kWp
- Option: solar charger
- Option: **type2** recharger for electric cars (22 kW max.)

FULL CUSTOMIZATION AVAILABLE FOR BATTERY AUTONOMY, GEN SET
POWER AND COUPLED PHOTOVOLTAIC FIELD



TECNOGEN S.p.A.

Strada per Ponte Riglio, 25
29010 Pontenure (Piacenza) Italy

P.IVA/CF 01126350337

ITALY SALES DEPARTMENT

Tel: +39 0523 512401

Fax: +39 0523 504453

E mail: italy@tecnogen.com

EXPORT DEPARTMENT

Tel: +39 0523 512440 Fax: +39 0523 504453

E mail: export@tecnogen.com