

**SOLAR
POWER**



**WIND ENERGY
STORAGE**



**POWER
GENERATION**



UPS STORAGE

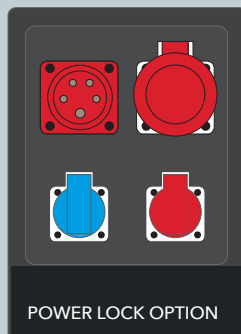


**MAINS
POWER**

ENERPACK

THE **SMART ENERGY STORAGE** SYSTEM

WITH LITHIUM BATTERY AND INTEGRATED INVERTER/CHARGER



Socket
Configuration

STANDARD EQUIPMENT

- Digital Control Panel
- Distribution Panel
- Canopy made of powder coated galvanised steel
- Central lifting eye
- Forklift pockets

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A BRUNO GROUP COMPANY

400/230V - THREE-PHASE / 50Hz

GENERAL TECHNICAL DATA		EP30/50T	EP42/70T	EP60/100T	EP120/200T	EP180/300T	EP360/600T	EP720/1000T
Rated voltage	VAC	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50
Nominal energy storage	kWh	30	42	60	120	180	360	720
Peak power 1 min. @ 25 °C	kW	59	88	96	96	96	96	96
Continuous load at power factor = 0,8	kVA	18	27	37	75	80	80	80
Communication technology		CAN bus	CAN bus	CAN bus	CAN bus	CAN bus	CAN bus	CAN bus
Sound power level	dB(A)	Zero noise	Zero noise	Zero noise	Zero noise	Zero noise	Zero noise	Zero noise
Protection degree		IP44	IP44	IP44	IP44	IP44	IP44	IP44

BATTERY

Battery voltage	VDC	399,6	399,6	399,6	399,6	399,6	399,6	399,6
Model		PJO-400-74-TDA 74A - 30kW	PJO-400-111-TDA 111A - 42kW	PJO-400-150-TDA 150A - 60kW	PJO-400-150-TDA 150A - 60kW	PJO-400-150-TDA 150A - 60kW	PJO-400-150-TDA 150A - 60kW	PJO-400-150-TDA 150A - 60kW
Brand								
Manufacturing country		ITALY	ITALY	ITALY	ITALY	ITALY	ITALY	ITALY
Quantity	units	1	1	1	2	3	6	12
Lithium cell chemistry		LiNMC	LiNMC	LiNMC	LiNMC	LiNMC	LiNMC	LiNMC
Battery pack capacity	Ah	74	111	150	300	450	900	1800
DoD % (depth of discharge @25°C±2)	%	80%	80%	80%	80%	80%	80%	80%
Working life cycle (80% DoD)	Cycles	>5000	>5000	>5000	>5000	>5000	>5000	>5000

INVERTER

Quantity	units	1	1	1	1	1	1 (2*)	1 (2*)
Continuous power at power factor = 0,8	kVA	80	80	80	80	80	80	80

PERFORMANCE
EXAMPLE OF PERFORMANCE IN BATTERY MODE WITH CONSTANT LOAD:

Load 3 kW	time	8 h : 00 min	11 h : 12 min	16 h : 00 min	32 h : 00 min	48 h : 00 min	96 h : 00 min	192 h : 00 min
Load 5 kW	time	4 h : 48 min	6 h : 43 min	9 h : 36 min	19 h : 12 min	28 h : 48 min	57 h : 36 min	115 h : 12 min
Load 10 kW	time	2 h : 24 min	3 h : 22 min	4 h : 48 min	9 h : 36 min	14 h : 24 min	28 h : 48 min	57 h : 36 min
Load 30 kW	time	***	***	1 h : 36 min	3 h : 12 min	4 h : 48 min	9 h : 36 min	19 h : 12 min
Load 45 kW	time	***	***	***	2 h : 00 min	3 h : 12 min	6 h : 24 min	12 h : 48 min
Load 60 kW	time	***	***	***	1 h : 36 min	2 h : 24 min	4 h : 48 min	9 h : 36 min

Recharging time (@ 80% DoD)	time	0 h : 50 min	0 h : 50 min	0 h : 50 min	1 h : 15 min	1 h : 50 min	3 h : 36 min	7 h : 12' min
* Recharging time (@ 80% DoD) with 2 inverters - OPTION	time	***	***	***	***	***	1 h : 48 min	3 h : 36 min

Recommended application daily power	kWh	< 50	< 70	< 100	< 200	< 300	< 600	> 600
Operating temperature	°C	-20 to +45*	-20 to +45*	-20 to +45*	-20 to +45*	-20 to +45*	-20 to +45*	-20 to +45*

CONTROL

Energy management system		Digital	Digital	Digital	Digital	Digital	Digital	Digital
Battery management system (BMS)		Hermes M3	Hermes M3	Hermes M3	Hermes M3	Hermes M3	Hermes M3	Hermes M3
Brand								
Manufacturing country		ITALY	ITALY	ITALY	ITALY	ITALY	ITALY	ITALY

DISTRIBUTION PANEL

INLET connection		1 x CEE 400V 5P 63A	1 x CEE 400V 5P 63A	Power busbar	Power busbar	Power busbar	Power busbar	Power busbar
OUTLET connection		1 x CEE 400V 5P 63A 1 x CEE 400V 5P 32A 2 x CEE 230V 3P 16A 63A	1 x CEE 400V 5P 63A 1 x CEE 400V 5P 32A 2 x CEE 230V 3P 16A 63A	1 x CEE 400V 5P 63A 1 x CEE 400V 5P 32A 2 x CEE 230V 3P 16A Power busbar	1 x CEE 400V 5P 63A 1 x CEE 400V 5P 32A 2 x CEE 230V 3P 16A Power busbar	1 x CEE 400V 5P 63A 1 x CEE 400V 5P 32A 2 x CEE 230V 3P 16A Power busbar	1 x CEE 400V 5P 63A 1 x CEE 400V 5P 32A 2 x CEE 230V 3P 16A Power busbar	1 x CEE 400V 5P 63A 1 x CEE 400V 5P 32A 2 x CEE 230V 3P 16A Power busbar

DIMENSIONS AND WEIGHT

Dimensions (L x W x H)	mm	3000x1100x1600	3000x1100x1600	3000x1100x1600	3000x1100x1600	3000x1100x1600	CONTAINER 20'	CONTAINER 20'
Weight	kg	1500	1550	1650	2150	2650	4600	7650

OPTIONS

INLET Powerlocks		1 row	1 row	1 row	1 row	1 row	1 row	1 row
OUTLET Powerlocks		1 row	1 row	1 row	1 row	1 row	1 row	1 row
Solar battery charger		on request	on request	on request	on request	on request	on request	on request

* for temperatures > 45 ° C customized equipment is available as option