



PHOTOVOLTAIC STORAGE



WIND ENERGY STORAGE



POWER GENERATION



UPS STORAGE



CONSTRUCTION



DISASTER RELIEF

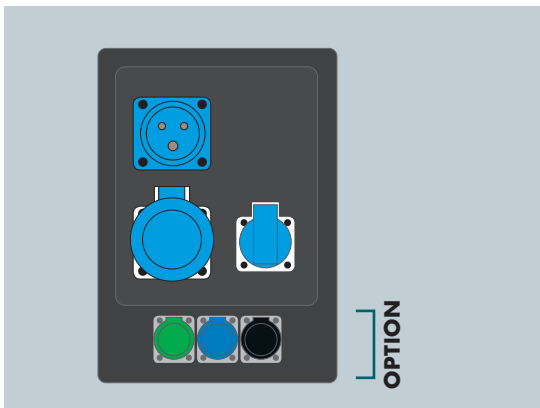


EVENTS

# ENERPACK

230V - SINGLE PHASE / 50HZ

THE NEW **BRUNO SMART ENERGY STORAGE** SYSTEM  
WITH LITHIUM BATTERY AND INTEGRATED INVERTER/CHARGER



EP30T CONTROL PANEL

## STANDARD EQUIPMENT

- Digital control panel
- Distribution panel
- Soundproof canopy made of galvanized steel
- Central lifting eye
- Forklift guides










# ENERPACK

## 230V - SINGLE PHASE / 50Hz

GENERAL TECHNICAL DATA		EP5M	EP11M	EP21M	EP27M	EP36M	EP53M	EP72M
Rated voltage	V AC	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50
Nominal energy storage	kWh	5,3	10,6	21,2	26,6	36,07	53,39	72,15
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	V DC	48	48	48	48	48	48	48
Model		PJO-048-111-RK1	PJO-048-111-RK1	PJO-048-111-RK1	PJO-048-555-TCU	PJO-048-750-TCU	PJO-048-THT-TCU	PJO-048-TFH-TCU
Brand								
Manufacturing country		ITALY	ITALY	ITALY	ITALY	ITALY	ITALY	ITALY
Quantity	units	1	2	4	1	1	1	1
Lithium cell chemistry		LiNMC	LiNMC	LiNMC	LiNMC	LiNMC	LiNMC	LiNMC
Battery pack capacity	Ah	111	222	444	555	750	1100	1500
DoD % (depth of discharge @25°C±2)	%	90%	90%	90%	90%	90%	90%	90%
Working life cycle (80% DoD)	Cycles	>6000	>6000	>6000	>6000	>6000	>6000	>6000

### INVERTER








Quantity	units	1	1	1	1	1	2	2
Continuous power at power factor = 1	kVA	5	5	7	7	7	7	7

### PERFORMANCE

#### EXAMPLE OF PERFORMANCE IN BATTERY MODE WITH CONSTANT LOAD:

Load 2kW	h min	2h 23'	4h 46'	9h 32'	12h	16h 14'	24h	32h 28'
Load 3kW	h min	1h 35'	3h 11'	6h 22'	8h	10h 49'	16h	21h 39'
Load 4kW	h min	1h 11'	2h 23'	4h 46'	6h	8h 7'	12h	16h 14'
Load 5kW	h min	***	1h 55'	3h 49'	4h 47'	6h 29'	9h 37'	13h
Load 7kW	h min	***	1h 22'	2h 44'	3h 25'	4h 38'	6h 52'	9h 17'
Load 10kW	h min	***	***	1h 55'	2h 23'	3h 15'	4h 49'	6h 29'
Recharging time (@ 90% DoD)	h min	1h 25'	2h 31'	2h 56'	4h 25'	5h 53'	4h	5h 50'
Recommended application (power needed daily)	kW	< 5	< 5	< 10	< 10	20	20	30
Operating temperature	°C	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60

### CONTROL

Energy management system		Digital	Digital	Digital	Digital	Digital	Digital	Digital
Battery management system (BMS)		Hermes 3M	Hermes 3M	Hermes 3M	Hermes 3M	Hermes 3M	Hermes 3M	Hermes 3M
Brand	CevLab							
Manufacturing country		Italy	Italy	Italy	Italy	Italy	Italy	Italy

### DISTRIBUTION PANEL

INLET connection		1 x CEE 230V 3P 32A	1 x CEE 230V 3P 32A	Power busbar	Power busbar	Power busbar	Power busbar	Power busbar
OUTLET connection		1 x CEE 230V 3P 16A	1 x CEE230V 3P 16A	2 x CEE230V 3P 16A	2 x CEE230V 3P 16A	2 x CEE230V 3P 16A	2 x CEE230V 3P 16A	2 x CEE230V 3P 16A
		1 x CEE 230V 3P 32A	1 x CEE230V 3P 32A	1 x CEE230V 3P 32A	1 x CEE230V 3P 32A	1 x CEE230V 3P 32A	1 x CEE230V 3P 32A	1 x CEE230V 3P 32A
		1 x CEE 230V 3P 32A	1 x CEE 230V 3P 32A	Power busbar	Power busbar	Power busbar	Power busbar	Power busbar

### DIMENSIONS AND WEIGHT

Dimensions (L x W x H)	mm	1015x1050x770	1015x1050x770	1015x1050x770	2200x1000x1300	2200x1000x1300	2200x1000x1300	2200x1000x1300
Weight	kg	387	445	578	900	913	1055	1094

### 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