

# THE SMART ENERGY STORAGE SYSTEM

## WITH LITHIUM BATTERY AND INTEGRATED INVERTER/CHARGER

400/230V - THREE PHASE / 50HZ

MODELS  
 EP 30 / 50T  
 EP 30 / 75T  
 EP 45 / 75T



# ENERPACK SERIES



Example of electrical panel

### STANDARD EQUIPMENT

- Digital control panel
- Distribution panel
- Canopy made of galvanized steel
- Lifting eyes
- Forklift guides

#### POWER SOURCES

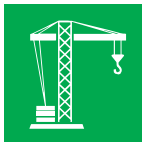


PHOTOVOLTAIC WIND ENERGY

POWER GENERATORS

UPS

#### APPLICATIONS



CONSTRUCTION










DISASTER RELIEF

EVENTS



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| ENERPACK                              |       |   |   |   |
|---------------------------------------|-------|---|---|---|
| 400/230V - THREE-PHASE / 50Hz         |       |   |   |   |
| GENERAL TECHNICAL DATA                | Units | EP 30 / 50T   | EP 30 / 75T   | EP 45 / 75T   |
| Rated Voltage                         | VAC   | 400   | 400   | 400   |
| Frequency                             | Hz    | 50  | 50  | 50  |
| Nominal Energy Storage                | kWh   | 48  | 72  | 72  |
| Continuous load at power factor = 0,8 | kVA   | 24  | 24  | 36  |
| Overload (300 seconds)                | kW    | -   | -   | -   |
| Communication technology              |       | CAN bus   | CAN bus   | CAN bus   |
| Sound Power Level                     | dB(A) | Zero Noise  | Zero Noise  | Zero Noise  |
| Protection degree                     |       | IP44  | IP44  | IP44  |
| Phases                                |       | 3 PHASE   | 3 PHASE   | 3 PHASE   |
| BATTERY                               |       |   |   |   |
| Battery Voltage                       | VDC   | 48  | 48  | 48  |
| Brand                                 |       |    |    |    |
| Manufacturing country                 |       | ITALY   | ITALY   | ITALY   |
| Quantity                              | units | 2   | 3   | 3   |
| Lithium cell chemistry                |       | LiNMC   | LiNMC   | LiNMC   |
| Discharged current                    |       | 0,5 C   | 0,5 C   | 0,5 C   |
| DOD % (depth of discharge @25°C ±2)   |       | 80%   | 80%   | 80%   |
| Working life cycle (80% DoD)          |       | > 6000  | > 6000  | > 6000  |
| INVERTER                              |       |   |   |   |
| Quantity                              | units | 3   | 3   | 3   |
| Continuous output power               | kVA   | 8   | 12  | 12  |
| Inverter Brand                        |       |  |  |  |
| Operation Temperatures                | °C    | -20 to +45*   | -20 to +45*   | -20 to +45*   |
| Manufacturing country                 |       | -   | -   | -   |
| CONTROL                               |       |   |   |   |
| Energy Management system              |       | Digital   | Digital   | Digital   |
| Battery management system (BMS)       |       | Hermes M3   | Hermes M3   | Hermes M3   |
| Brand                                 |       |  |  |  |
| Manufacturing country                 |       | ITALY   | ITALY   | ITALY   |
| DIMENSIONS AND WEIGHT                 |       |   |   |   |
| Dimensions (L x W x H)                | mm    | 2294x1134x2193  | 2294x1134x2193  | 2294x1134x2193  |
| Weight                                | kg    | 1719  | 1907  | 1970  |
| OPTIONS                               |       |   |   |   |
| INLET Powerlocks                      |       | 1 row on request  | 1 row on request  | 1 row on request  |
| Sockets                               |       | on request  | on request  | on request  |
| Air Conditioner                       |       | -   | -   | -   |
| Fire Extinguisher                     |       | -   | -   | -   |
| Solar Battery Charger                 |       | on request  | on request  | on request  |
| Air filtration panels                 |       | on request  | on request  | on request  |
| Recharger for electric cars           |       | on request  | on request  | on request  |

\* for temperatures &gt; 45 ° C customized equipment is available as option

Technical data not binding

TECNOGEN S.P.A. 

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MODELS

EP 30 / 50T

EP 30 / 75T

EP 45 / 75T

ENERPACK SERIES

E01

V01-02.2024



# THE SMART ENERGY STORAGE SYSTEM

## WITH LITHIUM BATTERY AND INTEGRATED INVERTER/CHARGER

400/230V - THREE PHASE / 50HZ

MODELS  
 EP40 / 100T  
 EP 120 / 100T  
 EP 120 / 200T  
 EP 180 / 200T



**ENERPACK SERIES**



Example of electrical panel

### STANDARD EQUIPMENT

- Digital control panel
- Distribution panel
- Canopy made of galvanized steel Lifting eyes
- Forklift guides

#### POWER SOURCES

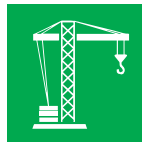


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## ENERPACK

400/230V - THREE-PHASE / 50Hz

| GENERAL TECHNICAL DATA                | Units | EP 40 / 100T                             | EP 120 / 100T                            | EP 120 / 200T                            | EP 180 / 200T                            |
|---------------------------------------|-------|--|--|--|--|
| Rated Voltage                         | VAC   | 400                                      | 400                                      | 400                                      | 400                                      |
| Frequency                             | Hz    | 50                                       | 50                                       | 50                                       | 50                                       |
| Nominal Energy Storage                | kWh   | 107                                      | 107                                      | 213                                      | 213                                      |
| Continuous load at power factor = 0,8 | kVA   | 40                                       | 120                                      | 120                                      | 180                                      |
| Overload (300 seconds)                | kVA   | 120                                      | 330*                                     | 330                                      | 360                                      |
| Communication technology              |       | CAN bus                                  | CAN bus                                  | CAN bus                                  | CAN bus                                  |
| Sound Power Level                     | dB(A) | Zero Noise                               | Zero Noise                               | Zero Noise                               | Zero Noise                               |
| Protection degree                     |       | IP44                                     | IP44                                     | IP44                                     | IP44                                     |
| Phases                                |       | 3 PHASE                                  | 3 PHASE                                  | 3 PHASE                                  | 3 PHASE                                  |
| <b>BATTERY</b>                        |       |  |  |  |  |
| Battery Voltage                       | VDC   | 355,2                                    | 355,2                                    | 355,2                                    | 355,2                                    |
| Brand                                 |       | archimede energia                        | archimede energia                        | archimede energia                        | archimede energia                        |
| Manufacturing country                 |       | ITALY                                    | ITALY                                    | ITALY                                    | ITALY                                    |
| Quantity                              | units | 4  | 4  | 8  | 8  |
| Lithium cell chemistry                |       | LiNMC                                    | LiNMC                                    | LiNMC                                    | LiNMC                                    |
| Discharged current                    |       | 2 C                                      | 2 C                                      | 2 C                                      | 2 C                                      |
| DOD % (depth of discharge @25°C ±2)   |       | 80%                                      | 80%                                      | 80%                                      | 80%                                      |
| Working life cycle (80% DoD)          |       | > 6000                                   | > 6000                                   | > 6000                                   | > 6000                                   |
| <b>INVERTER</b>                       |       |  |  |  |  |
| Quantity                              | units | 1  | 1  | 1  | 1  |
| Continuous output power               | kVA   | 40                                       | 120                                      | 120                                      | 180                                      |
| Inverter Brand                        |       | POWERTRONIX Uninterruptible Power Supply | POWERTRONIX Uninterruptible Power Supply | POWERTRONIX Uninterruptible Power Supply | POWERTRONIX Uninterruptible Power Supply |
| Operation Temperatures                | °C    | -20 to +45**                             | -20 to +45**                             | -20 to +45**                             | -20 to +45**                             |
| Manufacturing country                 |       | ITALY                                    | ITALY                                    | ITALY                                    | ITALY                                    |
| <b>CONTROL</b>                        |       |  |  |  |  |
| Energy Management system              |       | Digital                                  | Digital                                  | Digital                                  | Digital                                  |
| Battery management system (BMS)       |       | Hermes M3                                | Hermes M3                                | Hermes M3                                | Hermes M3                                |
| Brand                                 |       | archimede energia                        | archimede energia                        | archimede energia                        | archimede energia                        |
| Manufacturing country                 |       | ITALY                                    | ITALY                                    | ITALY                                    | ITALY                                    |
| <b>DIMENSIONS AND WEIGHT</b>          |       |  |  |  |  |
| Dimensions (L x W x H)                | mm    | 2318x1138x1820                           | 2904x2214x2478                           | 2904x2214x2478                           | 2904x2214x2478                           |
| Weight                                | kg    | 1750                                     | 3850                                     | 4400                                     | 4400                                     |
| <b>OPTIONS</b>                        |       |  |  |  |  |
| INLET Powerlocks                      |       | 1 row on request                         | 1 row on request                         | 1 row on request                         | 1 row on request                         |
| Sockets                               |       | on request                               | on request                               | on request                               | on request                               |
| Air Conditioner                       |       | on request                               | on request                               | on request                               | on request                               |
| Fire Extinguisher                     |       | -  | -  | -  | -  |
| Solar Battery Charger                 |       | on request                               | on request                               | on request                               | on request                               |
| Air filtration panels                 |       | on request                               | on request                               | on request                               | on request                               |
| Recharger for electric cars           |       | on request                               | on request                               | on request                               | on request                               |

\* 330 kVA for 10 seconds – 195 kVA for 300 seconds

\*\*for temperatures &gt; 45 °C customized equipment is available as option

Technical data not binding

MODELS  
EP 40 / 100T  
EP 120 / 100T  
EP 120 / 200T  
EP 180 / 200T

ENERPACK SERIES



# THE SMART ENERGY STORAGE SYSTEM

WITH LITHIUM BATTERY AND INTEGRATED INVERTER/CHARGER

400/230V - THREE PHASE / 50HZ



MODELS  
EP 120 / 320T  
EP 180 / 320T  
EP 250 / 320T  
EP 250 / 520T

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Example of electrical panel

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### POWER SOURCES



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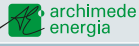




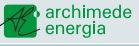


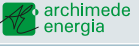


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**TecnoGen**  
POWER GENERATORS

## ENERPACK

400/230V - THREE-PHASE / 50Hz

| GENERAL TECHNICAL DATA                | Units | EP 120 / 320T   | EP 180 / 320T   | EP 250 / 320T  | EP 250 / 520T   |
|---------------------------------------|-------|---|---|--|---|
| Rated Voltage                         | VAC   | 400   | 400   | 400  | 400   |
| Frequency                             | Hz    | 50  | 50  | 50   | 50  |
| Nominal Energy Storage                | kWh   | 320   | 320   | 320  | 530   |
| Continuous load at power factor = 0,8 | kVA   | 120   | 180   | 250  | 250   |
| Overload (300 seconds)                | kVA   | 330   | 360   | 390  | 390   |
| Communication technology              |       | CAN bus   | CAN bus   | CAN bus  | CAN bus   |
| Sound Power Level                     | dB(A) | Zero Noise  | Zero Noise  | Zero Noise   | Zero Noise  |
| Protection degree                     |       | IP44  | IP44  | IP44   | IP44  |
| Phases                                |       | 3 PHASE   | 3 PHASE   | 3 PHASE  | 3 PHASE   |
| <b>BATTERY</b>                        |       |   |   |  |   |
| Battery Voltage                       | VDC   | 355,2   | 355,2   | 355,2  | 355,2   |
| Brand                                 |       |    |    |    |    |
| Manufacturing country                 |       | ITALY   | ITALY   | ITALY  | ITALY   |
| Quantity                              | units | 12  | 12  | 12   | 20  |
| Lithium cell chemistry                |       | LiNMC   | LiNMC   | LiNMC  | LiNMC   |
| Discharged current                    |       | 2 C   | 2 C   | 2 C  | 2 C   |
| DOD % (depth of discharge @25°C ±2)   |       | 80%   | 80%   | 80%  | 80%   |
| Working life cycle (80% DoD)          |       | > 6000  | > 6000  | > 6000   | > 6000  |
| <b>INVERTER</b>                       |       |   |   |  |   |
| Quantity                              | units | 1   | 1   | 1  | 1   |
| Continuous output power               | kVA   | 120   | 180   | 250  | 250   |
| Inverter Brand                        |       |  |  |  |  |
| Operation Temperature                 | °C    | -20 to +45 *  | -20 to +45 *  | -20 to +45 *   | -20 to +45 *  |
| Manufacturing country                 |       | ITALY   | ITALY   | ITALY  | ITALY   |
| <b>CONTROL</b>                        |       |   |   |  |   |
| Energy Management system              |       | Digital   | Digital   | Digital  | Digital   |
| Battery management system (BMS)       |       | Hermes M3   | Hermes M3   | Hermes M3  | Hermes M3   |
| Brand                                 |       |  |  |  |  |
| Manufacturing country                 |       | ITALY   | ITALY   | ITALY  | ITALY   |
| <b>DIMENSIONS AND WEIGHT</b>          |       |   |   |  |   |
| Dimensions (L x W x H)                | mm    | 20' container   | 20' container   | 20' container  | 20' container   |
| Weight                                | kg    | 4900  | 4900  | 4900   | 6300  |
| <b>OPTIONS</b>                        |       |   |   |  |   |
| INLET Powerlocks                      |       | 1 row on request  | 1 row on request  | 1 row on request   | 1 row on request  |
| Sockets                               |       | on request  | on request  | on request   | on request  |
| Air Conditioner                       |       | on request  | on request  | on request   | on request  |
| Fire Extinguisher                     |       | on request  | on request  | on request   | on request  |
| Solar Battery Charger                 |       | on request  | on request  | on request   | on request  |
| Air filtration panels                 |       | on request  | on request  | on request   | on request  |
| Recharger for electric cars           |       | on request  | on request  | on request   | on request  |

\* for temperatures &gt; 45 ° C customized equipment is available as option

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