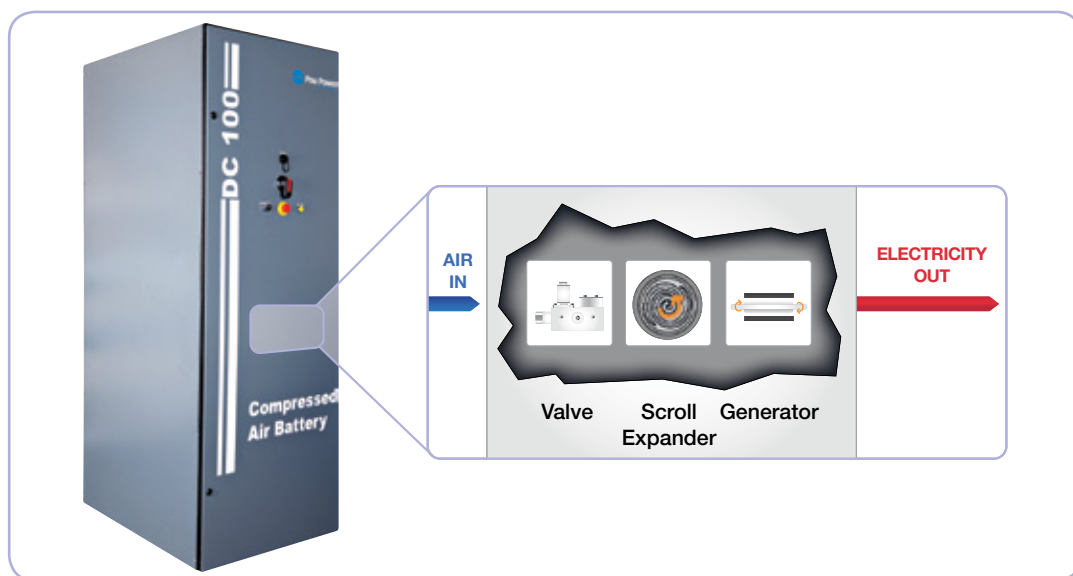


# Pnu Power<sup>100</sup>™ & Pnu Power<sup>200</sup>™

100kW/200kW Compressed Air Batteries

The smarter alternative to conventional batteries  
For DATA CENTRES and other large UPS applications



## benefits

- low initial & whole life costs
- low maintenance
- consistent high performance and power availability
- reliable, even in hostile environments
- fast plug-and-play installation

## features

- environmentally tolerant, self-contained units
- comprehensive GUI status display as standard
- run from standard cylinders or plant ring main air supplies
- auto compressor for cylinder recharge
- very low environmental impact and minimal disposal issues

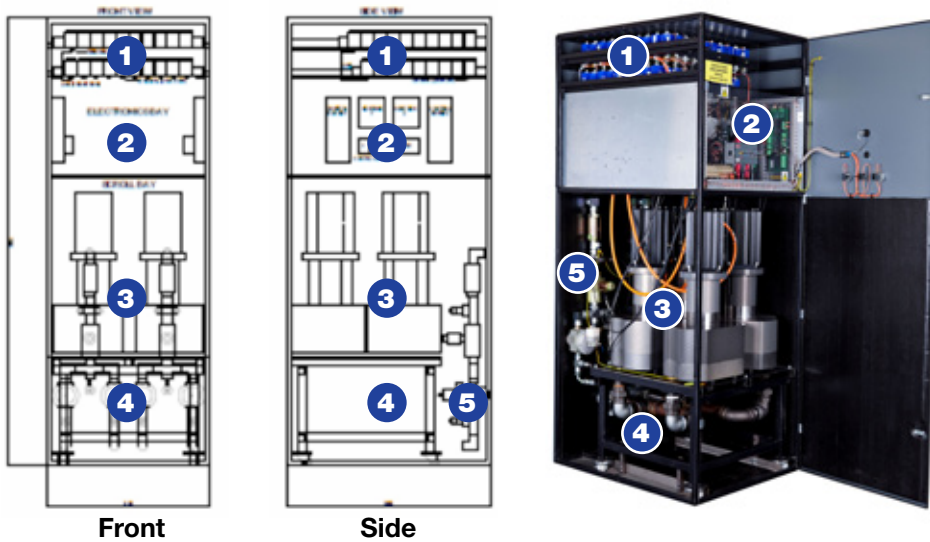
**FACT:** Conventional UPS/standby batteries are expensive to maintain and may fail to perform when needed

**FACT:** Pnu Power Compressed Air Batteries cost less to operate, are low maintenance and consistently dependable

# Pnu Power<sup>100</sup>™ & Pnu Power<sup>200</sup>™

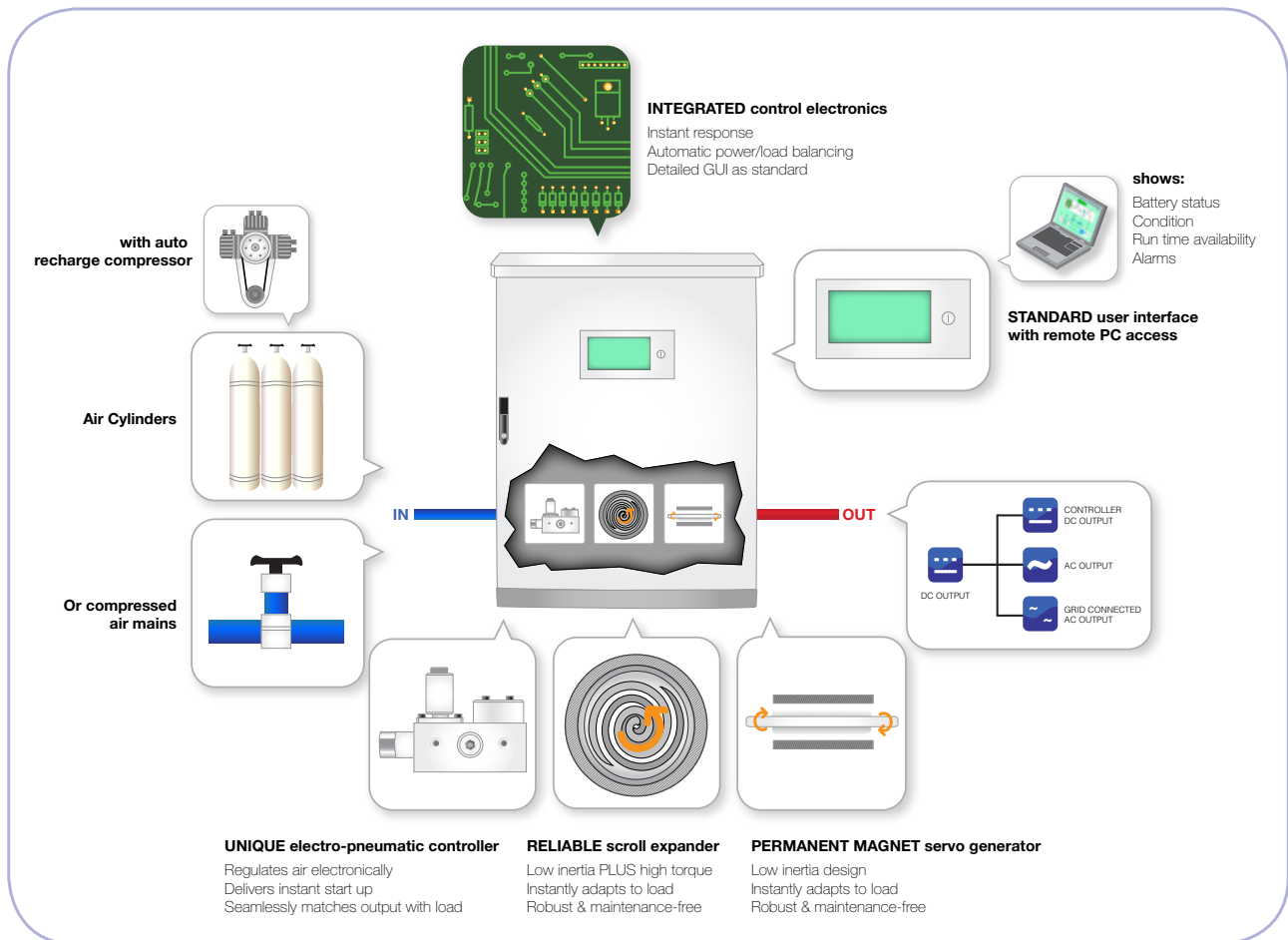
100kW/200kW Compressed Air Batteries

## 100kW power module



- Key**
- 1 Ultra capacitors
  - 2 Control electronics
  - 3 Scroll generators
  - 4 Exhaust chambers
  - 5 Control pneumatics

## system overview



## how they work

### **efficient power train**

Energy is stored in compressed air cylinders and regulated through control valves to rotate the scroll expander. This drives a generator to support the load.

### **instant performance**

The scroll starts extremely quickly (200 milliseconds) and ultra capacitors are used to bridge the gap between the grid outage and the scroll generator spinning up to speed.

## business benefits

### **proven reliability**

Pnu Power UPS systems provide dependable service worldwide, in fields including aerospace, electricity networks and telecoms.

### **low lifetime costs (capex/opex)**

Pnu Power 100™ and 200™ CAPEX costs are competitive – OPEX costs are much lower than for traditional batteries. Minimal maintenance requirements plus very low standby losses add up to exceptionally low whole-life cost of ownership.

## easy fit

### **scalable solutions**

Pnu Power compressed air batteries are modular in design, with capacities of 3KVA to 2MVA and above.

### **fast plug-and-play installation**

Pnu Power 100™ and 200™ units are delivered to your site, ready to use.

### **weatherproof enclosures**

All of our units are completely self-contained and weatherproof. They can be installed virtually anywhere.

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## standard specifications

TECHNICAL		
Output	100kW	200kW
Height/Width/Depth	Height 2200mm (86.6") x Width 800mm (31.5") x Depth 1000mm (39.5")	Height 2200mm (86.6") x Width 1600mm (63") x Depth 1000mm (39.5")
Weight	650 kg (1430 lbs)	950 kg (2090 lbs)
Supply Pressure	35 bar (507.5 psi)	
Run Time (from standard extendable cylinder pack)	30 seconds	
POWER		
DC Voltage	Customer specified: 350-750 Vdc	
Voltage Regulation	+/-0.5%	
ENERGY SOURCE		
Source	High pressure cylinders or medium pressure plant main	
Air quality	Standard industrial	
Recharge type	Automatic compressor	
ENVIRONMENTAL		
Operating temperature	-40 to +50°C (-40 to +122°F)	
Storage temperature	-40 to +60°C (-40 to +140°F)	
Humidity	>95% non-condensing	
Heat Dissipation	150W in standby mode	300W in standby mode
Noise	<65dBA at 5m as standard across range	
Enclosure	Standard industrial: internal & external options	
INSTRUMENTATION		
Local	LCD display shows run time remaining and operational status	
Remote	Ethernet (TCP-IP) or standard modem	
STANDARDS		
Safety	CE Certified	
Emissions	CE Certified	
Immunity	CE Certified	

**PRODUCT CODE: DC100/DC200**



**Pnu Power**  
An Energetix Group Company

Compressed Air Batteries  
the smarter backup choice

### Technical Information & Support

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