

# case study

product	customer	sector
		Harris Corporation ( <a href="http://www.harris.com">www.harris.com</a> ) is a \$5 billion international communications and information technology company serving government and commercial markets in more than 150 countries.

***The reliability and consistent performance of Pnu Power Compressed Air Batteries makes them perfect for emergency communications applications.***



*The Pnu Power Compressed Air Battery installation at Brooksville features a 300 Bar (4350 PSI) air store with auto recharge compressor.*

## challenge

- support Harris Corporation's police telecommunications network in Brooksville, Florida, for periods of up to 15 minutes
- provide instantaneous 'no break' operation, triggered by any loss of the 240 Vac mains supply
- provide automatic operation with minimal maintenance

## solution

- one Pnu Power 5™ 240V AC split phase, 4kVA, 60Hz UPS system within the Brooksville emergency service base transceiver station
- integrated automatic recharge compressor and a 3 cylinder pack, with 300 Bar (4350 PSI) air store
- with the 240 Vac mains supply restored, the compressed air used to support the outage is automatically replenished by the recharge compressor in readiness for the next event

## benefits

- reliable UPS support for a critical part of Florida's emergency services communications network
- simple installation with a small footprint
- automatic operation with minimal inspection and maintenance

# standard specifications

	<b>Pnu Power<sup>3</sup></b> 3kW Compressed Air Battery	<b>Pnu Power<sup>5</sup></b> 5kW Compressed Air Battery	<b>Pnu Power<sup>10</sup></b> 10kW Compressed Air Battery
Output	<b>3kW</b>	<b>5kW</b>	<b>10kW</b>
Height/Width/Depth	1700mm (66.9") x 800mm (31.5ins) x 600mm (23.6")	1700mm (66.9") x 800mm (31.5ins) x 600mm (23.6")	2200mm (86.6") x 800mm (31.5") x 800mm (31.5")
Weight	125kg (275lbs)	150kg (330lbs)	230kg (506lbs)
Supply Pressure	15 bar (217.5 psi)	28 bar (406 psi)	35 bar (507.5 psi)
Run Time from standard extendable cylinder pack	40 minutes	24 minutes	12 minutes

## POWER

AC Voltage	Customer specified: 110-240 Vac 1 Phase, 380-480 Vac 3 Phase 50/60Hz
DC Voltage	Customer specified: 12-340 Vdc +/-ve grounding available as standard
AC + DC	Multiple outputs available
Voltage regulation	+/- 0.5%

## OPERATIONAL SPECIFICATIONS

Mode	Standby or UPS power
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## ENERGY SOURCE

Source	High pressure cylinders or medium pressure plant main
Air quality	Standard industrial
Recharge type	Cylinder replacement or 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	<100W 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



Compressed Air Batteries  
the smarter backup choice

## Technical Information & Support

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