Delivering power, **when you need it.**

MODULAR POWER CONVERSION EQUIPMENT - AC UPS

INVERTER>solutions

DAC60000 | 24-220 |

Convection cooled inverters for industrial backup systems.

Dependable, critical power when you need it.

Simple maintenance.

Recycling Options

Single or Three phase input.

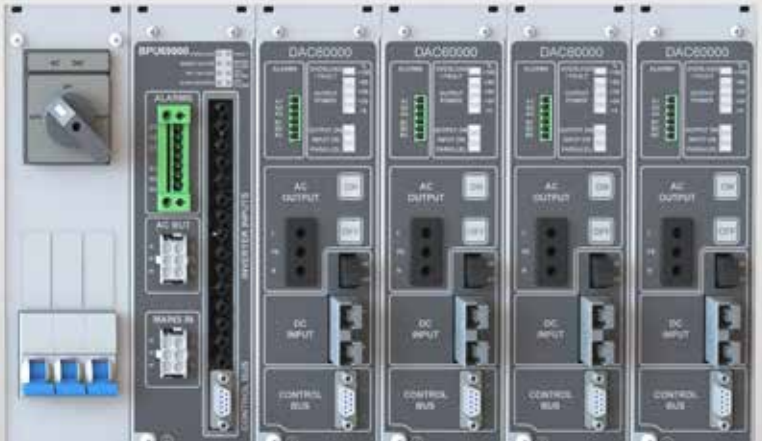
Utility and Grid installations.

Stand-alone or Modular providing expandable and scaleable power.

Wide range of system sizes as standard.

Optitherm™ convection cooled.

Reliablability for industrial backup systems.



Driving lower emissions.

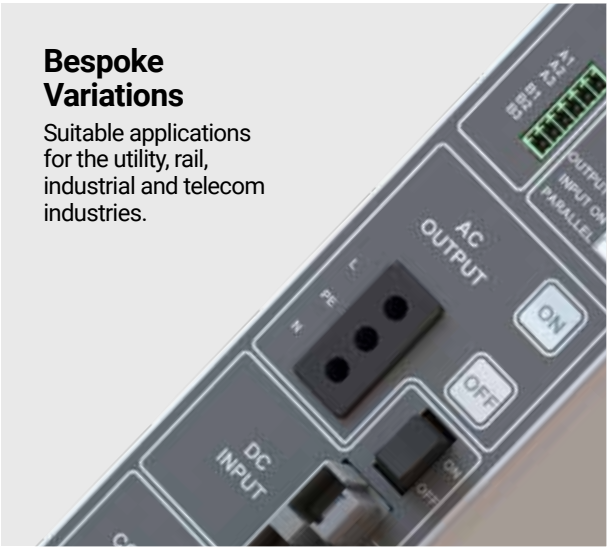
Simple Network Management Protocol (SNMP) options.

Cost-effective lifetime solutions.

Ready for access online or offline.

Bespoke Variations

Suitable applications for the utility, rail, industrial and telecom industries.



Output ranges

6>30kVA

30 Inverters per system.

5 YEAR WARRANTY

Standard throughout our product range.

The images in this document are for illustration purposes only and may not accurately represent the product.

INVERTOR SOLUTIONS OVERVIEW

Delivering power, **when you need it.**

PE SYSTEMS POWER PROTECTION SPECIALISTS

Electrical

	24VDC		48/60VDC		110/125VDC		220/230VDC	
	1000VA	1200VA	1000VA	1200VA	1000VA	1200VA	1000VA	1200VA
Input Voltage	20-32VDC		40-72VDC		88-150VDC		178-275VDC	
	User programmable (PC/RS-232) start-up and shutdown voltage limits and delays.							
Input Current *(max cont.)*	37A	50A	22A	35A	10A	16A	5A	8A
(max 5s peak)	75A	75A	50A	50A	22A	22A	11A	11A
Inrush Current	<30A		<20A		<10A		<10A	
Output Voltage	Nominal 230VAC sine wave, user programmable 200-240V, floating output.							
Output Frequency	Nominal 50Hz, user programmable 40 – 70Hz, crystal locked							
Nominal Output Power	1000VA/ 600W	1200VA/ 800W	1000VA/ 700W	1200VA/ 1200W	1000VA/ 700W	1200VA/ 1200W	1000VA/ 700W	1200VA/ 1200W
Overload	1200W		1700W		1700W		1700W	
5s	110% for all models, max time can be limited shorter.							
60s	Number of restart attempts and delays are user programmable.							
Output Current (nominal)	4.4A	5.2A	4.4A	5.2A	4.4A	5.2A	4.4A	5.2A
Short Circuit Current (max 5s)	13A	13A	13A	13A	13A	13A	13A	13A
Efficiency	85%	83%	90%		90%		90%	
Load Power Factor Range	Full power rating from 100% inductive to 100% capacitive.							
Total Harmonic Distortion (resistive load)	<2%							
Crest Factor	>3	>2.7	>3	>2.7	>3	>2.7	>3	>2.7
Static regulation (0-100% load)	3%							
Transient Recovery	<0.3ms							
Psofometric Noise (input)	N/A		<2mV		N/A		N/A	
Isolation	Input-Chassis 1500VAC (2000VDC) Input-Output 3000VAC (4000VDC) Output-Chassis 1500VAC (2000VDC)							
Protection	Output current limiting. Overload and short circuit proof. Internal input and output fuses.							
DC input fuse (external fuse needed)	max C 63A		max C 40A		max C 25A		max C 16A	
Minimum grounding wire thickness	10mm²		6mm²		6mm²		6mm²	
Minimum DC input wire thickness	10mm²		6mm²		6mm²		2.5mm²	

Standards

Safety	EN62368-1:2014
EMC	EN61000-6-4:2006, EN61000-6-2:2007 + A1:2011 Static Switch: As inverters except immunity: EN61000-4-3 radiated immunity according to EN61000-6-1, other immunity standards EN61000-6-2

Alarms

LED-Indications	*Input:*	ON
	Output:	ON
	Output Loading (4 levels):	>5%, >30%, >50%, >80%.
	Overload:	Fault
Relay Alarms	*2 Relay Contacts:*	Fault in system summary alarm (module failure, DC input low, etc.) Primary supply failure (system with bypass) or Output ON indication (system without bypass).
	Relay Contact Ratings:	24-48VDC: 60VDC/1A, 110VDC: 125VDC/0.4A, 220VDC: 250VDC/0.2A
Remote Monitoring Through RS-232 (Remote monitoring software)	*Status Information:*	For example, input and output voltage, power, temperature, faults, etc.
	Parameter Adjustment:	For example, input voltage limits, output voltage, overload, faults, etc.

Mechanical

Connectors in Front Panel	*Input DC connector:*	Anderson SB506331 G4
	Output:	Finger protected AC-connector, Wieland ST18/3S2
Enclosure	Steel casing IP20	

Environmental

	24VDC		48/60VDC		110/125VDC		220/230VDC	
	1000VA	1200VA	1000VA	1200VA	1000VA	1200VA	1000VA	1200VA
Input Voltage	Full Power 0°C to +40°C		Full Power 0°C to +40°C		Full Power -10°C to +40°C		Full Power -10°C to +40°C	
	+40°C to +60°C reduced power, derating -2%/C typically, no condensation.							
Cooling	NC	FC	NC	FC	NC	FC	NC	FC
	NC: Natual cooling/FC: Fan Cooling - (Fans are redundant and monitored)							
Altitude	Full power up to 2000m, derating -2%/100m, max altitude 3000m							

UK CA CE

For all our **QHES Accreditations,** please visit the website.

Contact us for a free system survey and learn more about our products.

pe-systems.co.uk/**technical**

Sales +44 (0)1942 260330

sales@pe-systems.co.uk