

POWERELITE MULTITEC

6-10kVA single/single phase or three/single phase



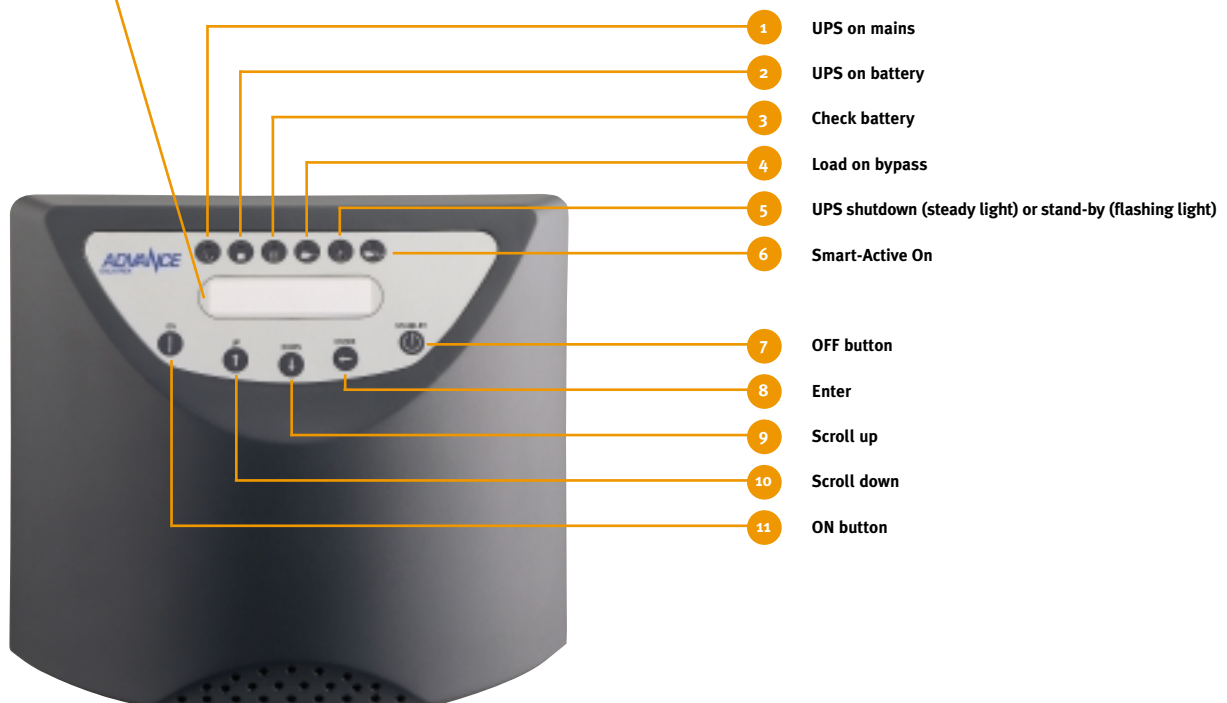
The PowerElite MultiTec range uses advanced digital on-line (VFI) technology to support loads up to 10kVA. The range includes models with both single and three phase inputs, and a single phase output.

The load is powered continuously by the inverter with an EMI filtered, stabilised and regulated sinewave supply. The MultiTec feature provides the UPS with three user selectable operating modes: On-line, Economy and Smart-Active to achieve operating efficiencies up to 98%. In Economy mode the UPS mimics digital line interactive (VI) technologies used for less critical or sensitive loads. In Smart-Active mode the UPS monitors the stability of the mains supply and automatically selects whether to operate in on-line or line interactive mode. All modes can be set using the PowerShield² software supplied with each UPS. PowerElite is an outstanding long runtime solution for critical voice and data processing applications. Runtimes from several minutes to many hours can be achieved using battery extension packs (BEPs) with extra chargers to maintain reasonable recharge times, or local standby generators.

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DIGITAL DISPLAY

The multi-language display provides detailed status, measurement and alarm information



FEATURES

- Advanced digital on-line (VFI) technology (EN50091-3)
- High reliability: microprocessor controlled static and manual bypass facility
- IGBT based power electronics
- High level diagnostics: states, modes, measurements and alarms
- Built-in front panel LCD with scroll function, RS232 and signal contact ports
- Power factor correction with sinusoidal input
- Low noise level (<40dBA)
- Low power consumption and maintenance costs (MTTR 30minutes)
- Low cost and simplified installation including; castors for easy positioning, selection of three phase or single phase input, output terminal block connection and two IEC sockets for powering local PCs and modems
- High level surge immunity (6kV to IEC801-5)
- Auto restart on power up (programmable)
- Built-in battery test facility (automatic and manual), temperature compensating charger and deep battery discharge protection
- Cold-start facility to allow the UPS to power up without a mains supply for security applications such as emergency lighting

APPLICATIONS

- Local Area Networks (LANs)
- Servers
- Data centres
- Industrial PLCs
- PoS (Point of Sale) systems
- Emergency applications (lights/alarms)
- Medical appliances
- Telecommunications devices



ADVANCED COMMUNICATION

- Advanced, multi-platform communication, for all operating systems and network environments: PowerShield² monitoring and control software included, with SNMP agent, for Windows 95, 98, 2000, Me, NT 4.0, Novell operating systems. The UPS is supplied with a cable for direct connection to a PC (Plug and Play)
- RS232 serial port
- IEC sockets for local plug in devices
- EPO (Emergency Power Off) contact for UPS shut-down using a remote panic button

TECHNICAL DATA

6-10kVA single/single phase or three/single phase

MODEL	6kVA	6kVA	6kVA	8kVA	10kVA	10kVA	10kVA
INPUT							
Rated voltage	230Vac single-phase	230Vac single-phase or three-phase with neutral					
Minimum voltage without battery	170Vac @ 100% load 140Vac @ 50% load						
Rated frequency	50/60 Hz \pm 5Hz						
Power factor	1 \emptyset \geq 0.99	1 \emptyset \geq 0.99	3 \emptyset \geq 0.95	1 \emptyset \geq 0.99	3 \emptyset \geq 0.95	1 \emptyset \geq 0.99	3 \emptyset \geq 0.95
Current distortion with non-linear load	1 \emptyset \leq 7%	1 \emptyset \leq 7%	3 \emptyset \leq 27%	1 \emptyset \leq 7%	3 \emptyset \leq 27%	1 \emptyset \leq 7%	3 \emptyset \leq 27%
BYPASS							
Voltage range	180-264Vac (selectable in Economy and Smart-Active modes)						
Frequency range	Selected frequency \pm 5Hz						
BATTERY							
Type	Maintenance free sealed lead-acid						
Recharge time	6-8h						
OUTPUT							
Rated voltage	220/230/240Vac selectable \pm 1%						
Static variation	1%						
Dynamic variation	\leq 5% in 20ms						
Waveform	Sinewave						
Voltage distortion with linear load	$<$ 2%						
Voltage distortion with non-linear load	$<$ 5%						
Frequency	50/60Hz (auto sensing or selectable)						
Crest factor	3:1						
Rated power in VA/W	6000/4200	6500/4600		8000/5600		10000/7000	
OVERLOAD CAPACITY							
100% $<$ Load $<$ 125%	2'						
125% \leq Load $<$ 150%	30s						
Load \geq 150%	0.5s						
INSTALLATION INFORMATION							
Efficiency On-line	Input 1 \emptyset 91%	Input 1 \emptyset 91%	Input 3 \emptyset 92%	Input 1 \emptyset 91%	Input 3 \emptyset 92%	Input 1 \emptyset 91%	Input 3 \emptyset 92%
Efficiency Line-interactive/Smart-Active	98%						
Operating temperature	0 -40°C						
Humidity	$<$ 90% non condensing						
Protection	Low battery - overcurrent - short-circuit - overvoltage - undervoltage - temperature						
Compliance	EN 50091-1-1, Directives 73/23 EEC and 93/68 /EEC EN 50091-2 cl. A, Council Directive 89/336 EEC						
Colour	Light grey RAL 7035						
Noise	$<$ 40dBA at 1m						
Maximum input current*	1 \emptyset 29A	1 \emptyset 31 A	3 \emptyset * 11A	1 \emptyset 41 A	3 \emptyset * 15 A	1 \emptyset 50 A	3 \emptyset * 18 A
Differential input current**	10mA						
VALUE OF THE OUTPUT PROTECTIONS FOR SELECTIVITY***							
Normal fuses (G)	In (Rated current)/7						
Normal switches	In (Rated current)/7						
Extra Fast fuses (EF)	In (Rated current)/2						

* During bypass the UPS switches the load (single-phase) to input (three-phase) and the cables and input protections must be calculated according to the value of the single-phase current. In this case, the single-phase load will be supported entirely by one of the three input phases

** This value must be added to the differential current of the equipment. Special applications on request

*** Complying with these values, the UPS will be able to provide the power required to interrupt the output protection if a short-circuit occurs, without switching the load to the mains supply

TECHNICAL DATA

Model No	Power	Back-up at full load	Dimensions (W x D x H) mm	Weight Kg
ETM6KVA000	6kVA/4k2W	0m	285 x 805 x 585	55
ETM6KVA007		6m*	285 x 805 x 585	100
ETM6K5VA000	6k5VA/4k6W	0m	285 x 805 x 735	63
ETM6K5VA007		15m*	285 x 805 x 735	133
ETM8KVA000	8kVA/5k6W	0m	285 x 805 x 735	65
ETM8KVA007		12m*	285 x 805 x 735	135
ETM10KVA000	10kVA/8kW	0m	285 x 805 x 735	65
ETM10KVA007		8m*	285 x 805 x 735	135

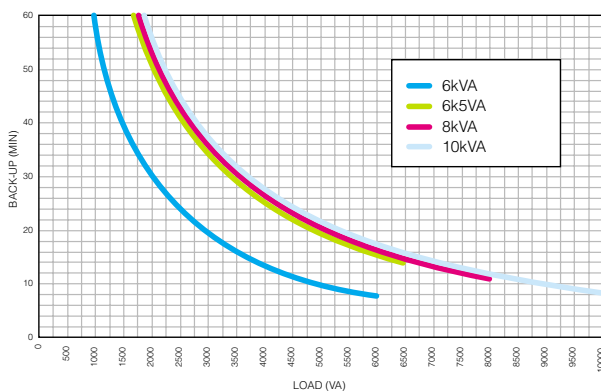
* Load dependent (see graph)

TYPICAL BATTERY EXTENSION PACKS

UPS Model No	Back-up at full load	Battery Extension Packs Model No	Qty	Dimensions (W x D x H) mm	Weight Kg
ETM6KVA007	28m	BEP216012Y/01	1	285 x 805 x 735	100
	54m	BEP216024Y/01	1	285 x 805 x 735	174
ETM6K5VA007	52m	BEP360012Y/01	1	285 x 805 x 735	175
	1h40	BEP360024AB/01	1	555 x 720 x 1200	335
	2h	BEP360038AB/02*	1	555 x 720 x 1200	490
	4h	BEP360065AC/02*	1	555 x 720 x 1200	720
ETM8KVA007	40m	BEP360012Y/01	1	285 x 805 x 735	175
	1h15	BEP360024AB/02*	1	555 x 720 x 1200	335
	2h20	BEP360024AB/01	1	555 x 720 x 1200	335
	-	+BEP360024AB/02*	1	555 x 720 x 1200	335
	4h	BEP360038AB/01	1	555 x 720 x 1200	485
	-	+BEP360038AB/02*	1	555 x 720 x 1200	490
ETM10KVA007	24m	BEP360012Y/01	1	285 x 805 x 735	175
	35m	BEP360024AB/02*	1	555 x 720 x 1200	335
	1h15	BEP360038AB/02*	1	555 x 720 x 1200	490
	2h	BEP360024AB/01	1	555 x 720 x 1200	335
	-	+BEP360038AB/02*	1	555 x 720 x 1200	490
	4h	BEP360038AB/01	1	555 x 720 x 1200	485
-	+BEP360065AC/02*	1	555 x 720 x 1200	720	

* Denotes that the battery pack has its own built-in charger

BACK-UP GRAPH



OPTIONS

- USB signal converter
- SNMP network slot-in adapter
- Remote status panel with LEDs
- Wall mounted maintenance bypass with manual and automatic transfer
- Isolation (Galvanic) pack for the bypass supply
- Voltage conversion pack (110/230 and 230/110V)
- Battery cabinets, cladded racks, internal trays and cables
- 19" rackmount trays and PowerRak cabinet system
- PowerShield² communications software and SNMP pack
- Service and maintenance plans
- StrikeSafe Transient Voltage Surge Suppressors (TVSS)