



centiel
continuous power availability

EssentialPower™

is the On-Line, true double-conversion,
single phase Uninterruptible Power Supply



EssentialPower™

EssentialPower™ is the On-Line, true double-conversion, single phase Uninterruptible Power Supply.

From 1 to 10kVA, EssentialPower™ provides reliable power for small network devices, servers, point-of-sale, workstation clusters and light-industrial installations.

1-3kVA

- Battery discharge level control, settable 30-100% of the available capacity
- Precise backup time estimation
- 2 programmable IEC outlets plus two Schuko
- Cold start to activate loads without mains
- Multiple operation modes to maximize energy efficiency
- Strong overload capability to improve CB's selectivity
- Manually activated extra service check
- Firmware upgradable for updates and customization
- Remote EPO and On/Off functions
- RS232 and USB port, comm. slot
- CEI 0-16 compliant

Extreme battery lifetime thanks to:

- wide input voltage tolerance (110-300V)
- wide input frequency tolerance (44-66Hz)
- intelligent battery management



3-6 kVA/ kW

- Low running costs: the high efficiency VFI and ECO features minimise energy consumption.
- User-friendly monitoring software can be downloaded free and is compatible with the main operating systems, for: monitoring functions, diagnostics, controlled shutdown of loads in the event of faults.
- Cold start.
- Wide input voltage and frequency ranges reduce battery switching, thereby increasing battery life and efficiency.
- Flexible battery configuration to suit your uptime requirements.
- Accurate calculated remaining uptime is shown on the display.
- Hot-swappable batteries: the batteries can be replaced while the UPS is running.



Maximum power availability: kVA=kW

Up to 4 units in parallel



EssentialPower™

1-3kVA



MODEL			1kVA	2kVA	3kVA
Power	VA		1000	2000	3000
	W		900	1800	2700
INPUT	Rated voltage*		110-300 Vac		
	Frequency		44-66 Hz		
	Power factor		>0.98		
OUTPUT	Rated voltage		200/208/220/230/240 Vac		
	Voltage distortion		<3% with linear load I, <7% with distorting load		
	Voltage stability		±1%		
	Frequency		50/60 Hz (selectable)		
	Frequency stability		±1 Hz or ±3 Hz (selectable)		
	Power factor		0.9		
	Crest factor		03:0 1		
	Waveform		Pure sine wave		
	Output sockets		3 x IEC C13 1 Schuko	3 x IEC C13 1 Schuko	3 x IEC C13 2 Schuko
EFFICIENCY	VFI mode		Up to 92%		
	ECO mode		Up to 96.5%		
GENERAL	Dimensions (WxDxH) mm		147x388x224	192x385.8x249.9	
	Weight (kg)		18.5	35	36.8
	Alarms		Audible and visual alarm alerts for: power failure, low battery, bypass transfer, and UPS fault.		
	Protection		Overload, overheating, short circuit, deep discharge, battery overcharging.		
	Operating mode		Multi-mode: VFI, ECO, Constant voltage constant frequency (CVCF) output.		
	"Cold start from the battery without mains power"		Included		
BATTERY	Battery type		12V VRLA, AGM (maintenance-free lead)		
	Uptime with internal battery (in min)	50% load	9	9	9
		100% load	2	4	3
	Charging time (90%)		4-6 hours		
ENVIRONMENTAL PARAMETERS	Operating temperature***		0-40°C		
	Relative humidity		0%-90% (non-condensing)		
	Altitude (a.s.l.)		<1000 m with no power derating, >1000 m with 1% derating for every 100 m.		
	Audible noise at 1 m.		≤50 dBA		
CONNECTIVITY	Built-in communication ports		USB, RS232, EPO and additional slot for optional cards		
	User interface		LED, LCD and function keys (parameters: voltage, frequency, load percentage, battery percentage, output voltage, UPS temperature).		
	Optional accessories		Cards: SNMP, RS485 ModBus, and dry relay contacts		
	Compatible software platforms		Microsoft Windows, Linux, Mac OS, VMware		
REGULATIONS	Standards		IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3		
	Marking		CE		



EssentialPower™

3-6 kVA/ kW



MODEL			EssentialPower Tower 6kVA/kW		EssentialPower Tower 10kVA/kW	
Power	VA		6000		10000	
	W		6000		10000	
INPUT	Rated voltage*		110–280 Vac			
	Frequency		45–70 Hz			
	Power factor		>0.99			
OUTPUT	Rated voltage		220/208/220/230/240 Vac selectable			
	Voltage distortion		<2% with linear load, <7% with distorting load			
	Voltage stability		±1%			
	Frequency		50/60 Hz (selectable)			
	Frequency stability		≤ 0.2% (free running)			
	Power factor		1			
	Crest factor		03:01			
	Waveform		Pure sine wave			
EFFICIENCY	Output sockets		Terminal blocks			
	VFI mode		Up to 94%			
	ECO mode		Up to 98%			
GENERAL	Dimensions (WxDxH) mm		240x700x513		288x700x513	
	Weight (kg)		59		78	
	Alarms		Audible and visual alarm alerts for: power failure, low battery, bypass transfer, and UPS fault.			
	Protection		Overload, overheating, short circuit, deep discharge, battery overcharging.			
	Operating mode		Multi-mode: VFI, ECO, frequency converter (CVCF)			
	"Cold start from the battery without mains power"		Included			
	Battery type		12V VRLA, AGM (maintenance-free lead)			
BATTERY	Uptime with internal battery (in min)	50% load	12		11	
		100% load	4		4	
	Charging time (90%)		4–6 hours			
ENVIRONMENTAL PARAMETERS	Battery expansion module dimensions (WxDxH) **		288x663x661			
	Operating temperature***		0–40°C			
	Relative humidity		0%–90% (non-condensing)			
	Altitude (a.s.l.)		<1000 m with no power derating, >1000 m with 1% derating for every 100 m.			
	Audible noise at 1 m.		≤60 dBA			
CONNECTIVITY	Built-in communication ports		USB, RS232, EPO On/Off contact, and additional slots for optional cards			
	User interface		LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, estimated uptime, UPS temperature).			
	Optional accessories		Cards: SNMP, RS485 ModBus, dry relay contacts			
	Compatible software platforms		Microsoft Windows, Linux, Mac OS, VMware			
REGULATIONS	Standards		IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3			
	Marking		CE			