Continuum

ChargeShield

ChargeMaster

ChargeGuard

ChargePro

FUSECO

Power Board & Micro Tower

Applications

ChargeShield Power Board & Micro Tower range is a multi function unit that can be used among a vast range of applications:

- **PC and peripherals**
- **Networking equipment (routers, modems)**
- **Network Attached Storage (NAS)**
- **Home & Home Office**
- **Education**
- **Projectors with impulse power**

- Power Board & Micro Tower
- Silent/Quiet Operation
- Inbuilt Battery
- Inbuilt Surge Protection
- Compact Design (Power Board)
- LCD display & AU sockets

CONTINUUM
ChargeShield

Key Features

- **Quiet Operation**
  Low noise.
- **Inbuilt Easy Change Battery**
- **Surge Protection**
- **Cold Start Capability**
  Start on battery only.
- **Automatic Voltage Regulation**
  Buck & Boost.
- **Short Circuit & Overload Protection**
- **Fast Re-Charging**
  90% in 4 hours.
- **Off Mode Charging**
- **Compact Design**
  Ideal for small workspaces.

LCD Display

Technical Specifications:

ChargeShield Power Board

Capacity	600VA	800VA
Active Power	360W	480W
Battery Voltage	12V	
Internal Battery Configuration	1 x BAT-12V9AH	
Dimensions (WxDxH mm)	202x293x93	
Weight (kg)	4.7	4.9
Input		
Input Connection	AU Plug	
Nominal Voltage	220/230/240V AC Single Phase	
Input Voltage Range	162 to 290V AC	
Frequency	50/60Hz	
Output		
Output Connection	6 x AU Sockets (3 Bypass/3 UPS)	
Output Voltage	220/230/240V AC Single Phase, Modified Sinewave	
Voltage Regulation	+/-10%	
Communications Port	USB	
Charge Port	1 x USB (1A)	
Display	LCD	
Audible Noise	<45db at 1m	
Operating Environment	0 to 40C (0 to 90% RH non-condensing)	

ChargeShield Micro Tower

Capacity	400VA	600VA	800VA	1000VA	1200VA	1500VA	2000VA	2400VA	3000VA
Active Power	240W	360W	480W	600W	720W	720W	900W	1440W	1800W
Battery Voltage	12V			24V				48V	
Internal Battery Configuration	1 x BAT-12V9AH			2 x BAT-12V9AH				4 x BAT-12V9AH	
Dimensions (WxDxH mm)	101x298x142			149x353x162		158x380x198		145x436x212	
Weight (kg)	4.1	4.3	4.9	7.8	8.4	10.1	10.5	21	23
Input									
Input Connection	AU Plug								
Nominal Voltage	220/230/240V AC Single Phase								
Input Voltage Range	162 to 290V AC								
Frequency	50/60Hz								
Output									
Output Connection	3 x AU Sockets					4 x AU Sockets			
Output Voltage	220/230/240V AC Single Phase, Modified Sinewave								
Voltage Regulation	+/-10%								
Communications Port	USB								
Display	LCD								
Audible Noise	<45db at 1m					<55db at 1m			
Operating Environment	0 to 40C (0 to 90% RH non-condensing)								

ChargeMaster UPS Systems

The Continuum ChargeMaster Series is an online double-conversion UPS that provides best-in-class performance for 1-20kVA applications, featuring compact size, high power density, class-leading efficiency and flexible configurations to ensure that you have a reliable option for all of your requirements. The load is powered continuously by the inverter which supplies a sinusoidal voltage, filtered and stabilised in terms of form and frequency. Input and output filters provide significant further immunity from electrical disturbances and lightning strikes.

It is ideal for powering mission critical applications such as IT Infrastructure, medical, telco, industrial and manufacturing systems. The latest generation technology delivers outstanding performance where it matters, including energy (cost) savings through high-efficiency and maximises upstream capacity with >0.99 PF.

- **Double Conversion**
  Converts the mains into DC and then back to regulated AC before exporting to the load.
- **Pure Sinewave**
  Has a smooth sinusoidal wave at output.
- **Silent / Low Noise**
  Ideal for home or quiet office environment. Best in-class low noise operation.
- **Advanced Protection**
  Protects the load from experiencing poor power events, dips and swells in voltage, spikes, low/high frequency events.
- **ECO Mode Operation for Energy Saving**
  Optimises the online process efficiency putting the UPS into Active Standby mode.
- **Cold Start**
  Will start UPS without AC mains, from battery only.
- **Self-Testing when UPS Startup**
- **Wide Input Voltage**
  Input Voltage Range 208-478V AC, no derating >305V AC.
- **Emergency Power Off**
- **High Efficiency**
  Up to 94.5%. Low Energy Consumption saves running costs.
- **Flexible Configuration Options**
  Rack/Tower convertible design with rotating display.
- **Small Footprint**
  Compact design requires minimal surface area & saves operational real estate.
- **Hot-Swappable Battery**
  Extended Battery Modules (EBM) can be added, serviced or changed on LR and IB on models 1-3kVA.
- **Generator Compatible**
  UPS has a "walk in" function that soft-starts the UPS on reconnection of the generator. This helps the generator control system to achieve stable operation.
- **Advanced Communication**
  USB, Ethernet, RS232.
- **Ethernet SNMP Card Factory Fitted**
  All models >3kVA
- **Input Harmonic Distortion less than 3%**
  Exceeds EN519 and IEC61000 requirements.
- **N+X parallel redundancy**
  All models >3kVA

Range

1-3 kVA - Mini Tower

- Internal & Long Run
- AU Plug
- 240V
- Phase 1 : 1

1-3 kVA - Rack / Tower

- Internal & Long Run
- AU Plug
- 240V
- Phase 1 : 1

6-10 kVA - Rack / Tower

- Long Run
- Hardwired
- 240V
- Phase 1 : 1

10-20 kVA - Tower

- Internal & Long Run
- Hardwired
- 415V
- Phase 3 : 1 (1 : 1)

Mini Tower 1-3kVA

Applications

Small Office, Home Office and small factories require UPS that take up a minimal amount of space, have low power consumption, and generate limited noise. ChargeMaster devices are the perfect choice for protecting small offices and domestic entertainment systems from damaging disturbances, blackouts and costly data loss.

- 1-3 kVA
- Mini Tower
- Internal & Extended Batteries
- AU Plug
- 240V
- Phase 1:1

CONTINUUM ChargeMaster

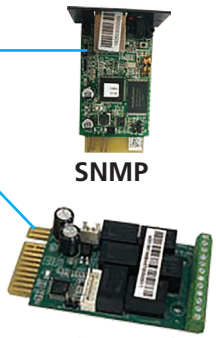
Key Features

- **Efficiency up to 92%**
  Low Energy Consumption.
- **Double Conversion**
  Converts the mains into DC and then back to regulated AC before exporting to the load.
- **Pure Sinewave**
  Has a smooth sinusoidal wave at output.
- **LCD Display**
- **Advanced Protections**
  Protect the load from experiencing poor power events, dips and swells in voltage, spikes, low/high frequency events.
- **Small Footprint**
  Small surface area required, compact.
- **Silent Operation**
  Ideal for home or quiet office environment.
- **Advanced Communication**
  USB, Optional Ethernet, RS232.
- **Both Internal and External Battery Options**
  IB+EBM, or LR+EBM, allowing extendable backup times.
- **Hot-Swappable Battery**
  Battery EBM can be added, serviced without interruption of power to the load.

Optional Accessories

- SNMP ethernet card
- Relay output card
- (EBM) Extended battery module up to 4 additional units


Rear Panel



Technical Specifications

ChargeMaster Mini Tower 1-3kVA						
Capacity	1kVA	1kVA	2kVA	2kVA	3kVA	3kVA
Active Power	900W	900W	1.8kW	1.8kW	2.7kW	2.7kW
Battery Voltage	24V	36V	48V	72V	72V	96V
Internal Battery Model (IB)						
Internal Battery Configuration	2 x BAT-12V9AH	3 x BAT-12V9AH	4 x BAT-12V9AH	6 x BAT-12V9AH	6 x BAT-12V9AH	8 x BAT-12V9AH
Dimensions (WxDxH mm)	144x293x209	144x399x209	191x460x337	191x460x337	191x460x337	191x460x337
Weight	9.3	12.5	19.5	24.5	24.5	29.5
Extended Battery Model (LR)						
Dimensions (WxDxH mm)	144x293x209	144x293x209	191x460x337	191x460x337	191x460x337	191x460x337
Weight (kg)	4.1	4.1	10	10	10	10
Extended Battery Module (EBM)						
EBM (suit IB and LR models)	24V	36V	48V	72V	72V	96V
EBM Battery Configuration	4 x BAT-12V9AH	6 x BAT-12V9AH	8 x BAT-12V9AH	12 x BAT-12V9AH	12 x BAT-12V9AH	16 x BAT-12V9AH
EBM Dimensions (WxDxH mm)	144x399x209	144x399x210	191x460x337	191x460x338	191x460x339	191x460x340
EBM Weight (kg)	13.5	18.5	28.5	38.5	38.5	47.5
Input						
Nominal Voltage	220/230/240V AC Single Phase					
Input Voltage Range	176 to 264V AC					
Frequency	40-70Hz (50/60Hz Auto-Sensing)					
Power Factor	>0.99					
Output						
Output Voltage	220/230/240V AC Single Phase, Pure Sinewave					
Voltage Regulation	+/-1%					
Power Factor	0.9					
Crest Factor	3:1					
Efficiency	85-88%	85-88%	87-90%	87-90%	88-91%	88-91%
Battery						
Battery Type	BAT-12V9AH VRLA					
Typical Recharge Times	Approximate 4 hours to 90%					
Max. number of EBMs	4					
User Interface	LCD Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time					
Operating Temperature	0 to 40C					
Humidity Range	20-95%					
Audible Noise	<50dB at 1 metre					
Optional	UPS-RC Relay Card with remote control, UPS-SNMP-220 Ethernet Adaptor					

Rack / Tower 1-3kVA

Applications

ChargeMaster rack tower range is a multi function unit that can be used among a vast range of applications:

- **Data Centres, Security & Communication Networks**
- **Hospitals - Theatre Lighting, Nurse Call, General Power**
- **Education Facilities**
- **Critical Infrastructure - Water Treatment, Scada Networks, Control Systems**
- **Commercial Buildings - Retail, Office, Home Office**

- 1-3 kVA
- Rack / Tower
- Internal & Extended Batteries
- AU Plug
- 240V
- Phase 1:1

CONTINUUM ChargeMaster

Key Features

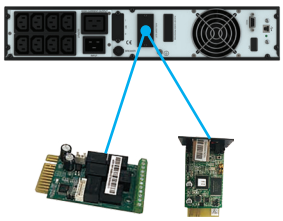
- **Pure Sinewave**
- **Rack/Tower Convertible Design with rotating display**
  Customer may choose to mount the UPS in a data rack or as a tower configuration.
- **True Online Double Conversion**
  Converts the mains into DC then back to regulated AC before exporting to the load.
- **Low Noise Operation**
  Ideal for home or quiet office environment.
- **Hot-Swappable Battery**
  Both internal and external battery options.
- **Efficiency up to 92%**
- **Support Economic (ECO) Operation Mode**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Cold Start**
  Will start UPS without AC mains, from battery only.
- **Emergency Power Off**

Optional Accessories

- SNMP ethernet card & relay output card
- (EBM) Extended battery module up to 4 additional units
- Rack mount kit
- External manual bypass switch


Multifunctional Bracket


Rotating LCD panel


Relay Card

SNMP

Technical Specifications

ChargeMaster Rack Tower 1-3kVA						
Capacity	1kVA	1kVA	2kVA	2kVA	3kVA	3kVA
Active Power	900W	900W	1.8kW	1.8kW	2.7kW	2.7kW
Battery Voltage	24V	36V	48V	72V	72V	96V
Internal Battery Model (IB)						
Internal Battery Configuration	2 x BAT-12V9AH	3 x BAT-12V9AH	4 x BAT-12V9AH	6 x BAT-12V9AH	6 x BAT-12V9AH	N/A
Dimensions (WxDxH mm)	440x325x86.5	440x460x86.5	440x460x86.5	440x600x86.5	440x600x86.5	N/A
Weight (kg)	11.3	14	19.5	25	26	N/A
Extended Battery Model (LR)						
Dimensions (WxDxH mm)	440x325x86.5	440x325x86.5	440x600x86.5	440x600x86.5	440x600x86.5	440x600x86.5
Weight (kg)	5.6	5.6	10.5	10.5	11	11
Extended Battery Module (EBM)						
EBM (suit IB and LR models)	24V	36V	48V	72V	72V	96V
EBM Battery Configuration	4 x BAT-12V9AH	6 x BAT-12V9AH	8 x BAT-12V9AH	12 x BAT-12V9AH	12 x BAT-12V9AH	8 x BAT-12V9AH
EBM Dimensions (WxDxH mm)	440x430x86.5	440x430x86.5	440x550x86.5	440x710x86.5	400x710x86.5	440x550x86.5
EBM Weight (kg)	17.4	22.5	31.5	44	44	31.5
Input						
Nominal Voltage	220/230/240V AC Single Phase					
Input Voltage Range	176 to 264V AC					
Frequency	40-70Hz (50/60Hz Auto-Sensing)					
Power Factor	>0.99					
Output						
Output Voltage	220/230/240V AC Single Phase, Pure Sinewave					
Voltage Regulation	+/-1%					
Power Factor	0.9					
Crest Factor	3:1					
Efficiency	85-88%	85-88%	87-90%	87-90%	88-91%	88-91%
Battery						
Battery Type	BAT-12V9AH VRLA					
Typical Recharge Times	Approximate 4 hours to 90%					
Max. number of EBMs	4					
User Interface	LCD Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time					
Operating Temperature	0 to 40C					
Humidity Range	20-95%					
Audible Noise	<50dB at 1 metre					
Optional	19 inch Rack Mounting Kit, UPS-RC Relay Card with remote control, UPS-SNMP-220 Ethernet Adaptor, UPS-MBS-3KVA Rack Mounted External Bypass Switch					

Rack / Tower 6-10kVA

Applications

ChargeMaster rack tower range is a multi function unit that can be used among a vast range of applications:

- **Data Centres, Security & Communication Networks**
- **Hospitals - Theatre Lighting, Nurse Call, General Power**
- **Education Facilities**
- **Critical Infrastructure - Water Treatment, Scada Networks, Control Systems**
- **Commercial Buildings - Retail, Office, Home Office**

- 6-10 kVA
- Rack / Tower
- Long Run Batteries
- Hardwired
- 240V
- Phase 1:1

CONTINUUM
ChargeMaster

Key Features

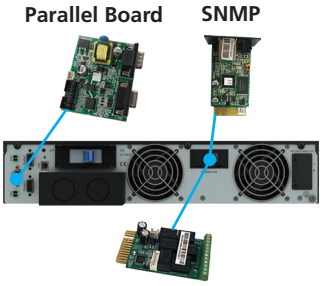
- **Pure Sinewave**
- **Rack/Tower Convertible Design with rotating display**
  Customer may choose to mount the UPS in a data rack or as a tower configuration.
- **True Online Double Conversion**
  Converts the mains into DC then back to regulated AC before exporting to the load.
- **High Power Density/Efficiency up to 94%**
- **N+X parallel redundancy, support a maximum of 4 units in parallel**
- **Generator Compatibile**
  UPS has a "walk in" function that soft starts the UPS on reconnection of the generator to allow the generator control system stable operation.
- **ECO Mode Operation for Energy Saving**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Self Testing when UPS Startup**
- **Ethernet SNMP Card Factory Fitted**
- **Cold Start**
  Will start without AC mains, on DC Battery.

Optional Accessories

- Relay output card, temperature sensor
- External battery module required
- Rack mount kit
- External manual bypass switch
- Parallel redundancy cable


Multifunctional Bracket


Rotating LCD panel



Relay Card

Technical Specifications

ChargeMaster Rack Tower 6-10kVA		
Capacity	6kVA	10kVA
Active Power	5400W	9000W
Dimensions (WxDxH mm)	440x625x86.5 (2RU)	440x625x86.5 (2RU)
Weight (kg)	16	18
EBM (External Battery Module)	BCAB-R-20-120V-N	BCAB-R-20-120V-N
EBM Battery Configuration	20 x BAT-12V9AH	20 x BAT-12V9AH
EBM Battery Voltage	+/-120V DC (240V DC nominal)	+/-120V DC (240V DC nominal)
EBM Dimensions (WxDxH mm)	440x680X131 (3RU)	440x680x131 (3RU)
EBM Weight (kg)	63	63
Input		
Nominal Voltage	220/230/240V AC Single Phase	
Input Voltage Range	176 to 286V AC	
Frequency	40-70Hz (50/60Hz Auto-Sensing)	
Power Factor	>0.99	
Output		
Output Voltage	220/230/240V AC Single Phase, Pure Sinewave	
Voltage Regulation	+/-1%	
Power Factor	1.0	
Crest Factor	3:1	
Efficiency	Up to 94%	
Battery		
Battery Voltage	+/-120V DC (240V DC nominal)	
Battery Type	VRLA	
Maximum Charge Current	10A	
User Interface	LCD Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time	
Operating Temperature	0 to 40C	
Humidity Range	5-95% non-condensing	
Audible Noise	<55dB at 1 metre	<58dB at 1 metre
Communications	RS232, USB,EPO, Parallel Port (N+x), Ethernet SNMP (UPS-SNMP-220)	
Optional	19 inch Rack Mounting Kit, UPS-RC Relay Card with remote control, Rack Mounted External Bypass Switch, Parallel Cable	

FUSECO

Tower 10-20kVA

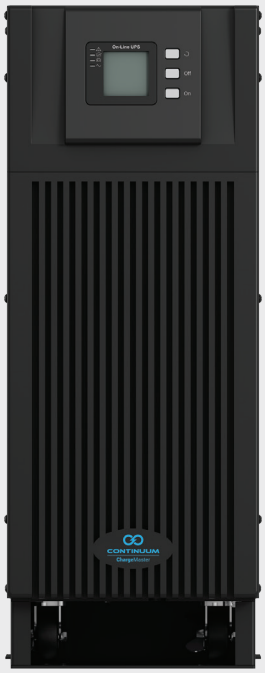
Applications

ChargeMaster tower range is a multi function unit that can be used among a vast range of applications:

- **Data Centres Large/Small**
- **Medical Areas - Theatre lighting, General Power, Computer Support**
- **Industrial - Production Facilities**
- **Infrastructure - Scada Networks**
- **Commercial - Retail, Office, Communication**

- 10-20 kVA
- Tower
- Internal & External Batteries
- Hardwired
- 415V (230V)
- Phase 3:1 (1:1)

CONTINUUM ChargeMaster

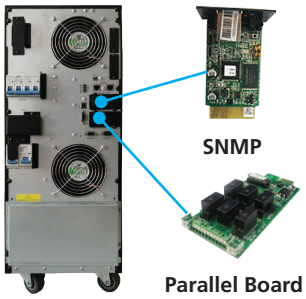


Key Features

- **True Online Double Conversion**
  Converts the mains into DC then back to regulated AC before exporting to the load.
- **N+X parallel redundancy, support a maximum of 4 units in parallel**
- **Generator Compatibile**
  UPS has a "walk in" function that soft starts the UPS on reconnection of the generator.
- **ECO Mode Operation for Energy Saving**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Self Testing when UPS Startup**
- **Cold Start**
  Will start without AC mains, on DC Battery.
- **Input Harmonic Distortion less than 3%**
  Exceeds EN519 and IEC61000 requirements.
- **High Efficiency**
  Up to 94.5%
- **Ethernet SNMP Card Factory Fitted**
- **Wide Input Voltage**
  Input Voltage Range 208-478V AC (120 to 276V AC), no derating >305V AC (176V AC).

Optional Accessories

- Relay output cards
- Additional battery modules for extra run time
- Parallel redundancy cables



Technical Specifications

ChargeMaster Tower 10-20kVA			
Capacity	10kVA	15kVA	20kVA
Active Power	10kW	15kW	20kW
Internal Battery Model (IB)			
Internal Battery Configuration	20 x BAT-12V9AH	2 x 20 x BAT-12V9AH	2 x 20 x BAT-12V9AH
Dimensions (WxDxH mm)	250x900x868	250x900x868	250x900x868
Weight (kg)	125	180	181
Extended Battery Model (LR)			
Dimensions (WxDxH mm)	250x580x655	250x580x655	250x580x655
Maximum Charge Current	14A	16A	18A
Weight (kg)	33	37	38
LR External Battery Type1	BCAB-T-40-120V-N		
Battery Configuration	2 x 20 x BAT-12V9AH		
Dimensions (WxDxH mm)	250x619x616		
Weight (kg)	134		
LR External Battery Type2	BCAB-T-80-120V-N		
Battery Configuration	4 x 20 x BAT-12V9AH		
Dimensions (WxDxH mm)	250x900x868		
Weight (kg)	265		
Input			
Nominal Voltage	380/400/415V AC Three Phase (220/230/240V AC Single Phase)		
Input Voltage Range	208-478V AC (120 to 276V AC)		
Frequency	40-70Hz (50/60Hz Auto-Sensing)		
Power Factor	>0.99		
Output			
Output Voltage	220/230/240V AC Single Phase, Pure Sinewave		
Voltage Regulation	+/-1%		
Power Factor	0.9		
Crest Factor	3:1		
Efficiency	Up to 93.5%	Up to 94.5%	Up to 94.5%
Battery			
Battery Voltage	+/-120V DC (240V DC nominal)		
Battery Type	BAT-12V9AH VRLA		
User Interface	Colour Segment Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time		
Operating Temperature	0 to 40C		
Humidity Range	0-95% non condensing		
Audible Noise	<55dB at 1 metre	<55dB at 1 metre	<58dB at 1 metre
Communications	RS232, RS485, USB, EPO, Parallel Port (N+x), Ethernet SNMP		
Optional	UPS-RC Relay Card with remote control, Parallel Cable		

ChargeGuard UPS Systems

The Continuum ChargeGuard series is an online double-conversion UPS that provides best-in-class performance for 10-200kVA applications, featuring compact size, high power density, class-leading efficiency and flexible configurations to ensure that you have a reliable option for all of your requirements.

ChargeGuard has been designed to protect critical information and telecommunications systems, networks, services and processes whose operation could be disrupted by poor power quality and/or breaks in their mains power supply. It provides the highest performance for mission-critical applications at the lowest total cost of ownership.

ChargeGuard is the perfect three-phase white or grey space UPS solution for today's medium-sized data center. Designed to operate with a minimal impact on its environment and power sources, this exceptional UPS offers advanced technology, robust designs & high reliability. Complete peace of mind.

- **True Online double conversion with full digital control**
  Precise output voltage control, with faster response time to input voltage changes & load steps.
- **Pure Sinewave**
  Produces a smooth sinusoidal wave at output.
- **Small Footprint**
  Compact design requires minimal surface area & saves operational real estate.
- **Input & Output Isolators & Maintenance Bypass Switch on all models**
- **ECO Mode Operation for Energy Saving**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Cold Start**
  Will start UPS without AC mains, from battery only.
- **Self-Testing when UPS Startup**
- **Ethernet SNMP Card Factory Fitted N+X parallel redundancy, support a maximum of 4/6 units in parallel**
- **High Power Density**
  Efficient design.
- **Flexible Battery Configuration (Both Internal and External Battery Options up to 80kVA).**
  Batteries number of each group can be selected from 30 pieces to 50 pieces (100-200kVA).
- **100% Unbalanced Load Support**
- **Generator compatible with "Power Walk" in Function**
- **Wide Input Voltage Range**
  138-485V AC, no derating > 305V AC.
- **Ethernet SNMP Card Factory Fitted**
  7" Colour full feaured display.

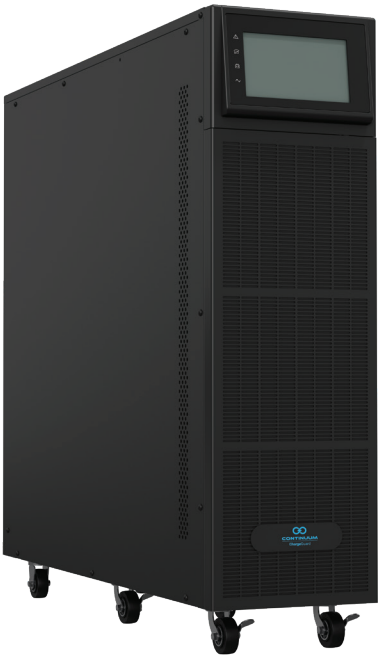
Range

10-80 kVA - Tower

- Internal & Long Run
- Hardwired
- 380V/400/415V
- Phase 3 : 3

100-200 kVA - Tower

- Long Run
- Hardwired
- 380V, 400, 415V
- Phase 3 : 3



FUSECO

Tower 10-80kVA

Applications

ChargeGuard tower range is a multi function unit that can be used among a vast range of applications:

- **Energy Efficient Data Centres – Hyperscale**
- **Critical High-Density Computer & IT Environments**
- **Hospital & Medical Critical Applications**
- **Industrial & Commercial Applications**
- **Water / Waste-Water, Desalination Plants**
- **Rail / Transport Critical Applications**
- **Banks, Telecommunication, Education Facilities**

- 10-80 kVA
- Tower
- Internal & External Batteries
- Hardwired
- 380/400/415V
- Phase 3:3

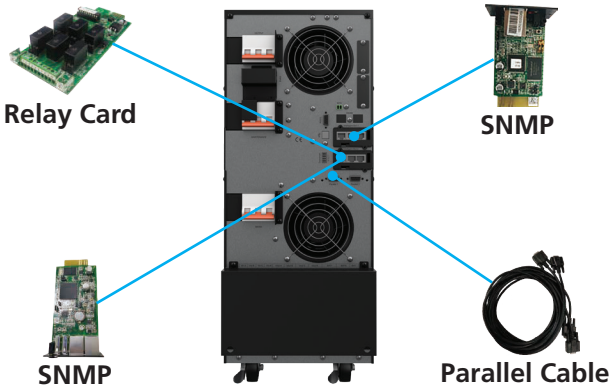
CONTINUUM ChargeGuard

Key Features

- **True Online double conversion with full digital control**
  Precise output voltage control, with faster response time to input voltage changes and load steps.
- **High Power Density**
  Efficient design.
- **Ethernet SNMP Card Factory Fitted**
- **N+X parallel redundancy, support a maximum of 4 units in parallel**
- **100% Unbalanced Load Support**
- **Wide Input Voltage Range**
  138-485V AC, no derating > 305V AC.
- **Both Internal and External Battery Options (up to 80kVA)**
  Flexible form factor options.
- **Generator compatible with "Power Walk" in Function**
- **ECO Mode Operation for Energy Saving**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Self Testing when UPS Startup**
  The UPS self-tests its internal circuits.
- **Cold Start**
  Will start without AC mains, on DC Battery only.

Optional Accessories

- Internal and external battery solutions
- Relay output card, battery temperature sensor
- Additional battery box for extended run times
- Parallel redundancy cable for N+x operation



Technical Specifications

ChargeGuard Tower 10-80kVA							
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA
Active Power	9W	13.5W	18kW	27kW	36kW	60kW	80kW
Internal Battery Model (IB)							
Nominal Battery Voltage	+/-120V DC (240V DC)				+/-180V DC (360V DC)	+/-240V DC (480V DC)	
Internal Battery Configuration	20 x BAT-12V9AH	2 x 20 x BAT-12V9AH		3 x 20 x BAT-12V9AH	2 x 30 x BAT-12V9AH	6 x 40 x BAT-12V9AH	
Dimensions (WxDxH mm)	250x900x868					600x1000x2000	
Weight (kg)	129	186	187	236	239	950	1000
Extended Battery Model (LR)							
Nominal Battery Voltage	+/-120V DC (240V DC)				+/-240V DC (480V DC)		
Maximum Charge Current	14A	16A	18A	20A			40A
Dimensions (WxDxH mm)	255x580x655					250x828x868	442x850x1200
Weight (kg)	35	39	40	43	46	83	140
LR External Battery Module	BCAB-T-40-120V-N or BCAB-T-80-120V-N				BCAB-T-80-240V-N		
Battery Configuration	2 x 20 x BAT-12V9AH (VRLA) or 4 x 20 x BAT-12V9AH (VRLA)				2 x 40 x BAT-12V9AH (VRLA)		
Dimensions (WxDxH mm)	250x619x616 or 250x900x868				250x900x868		
Weight (kg)	134 or 215				215		
Custom External Battery	+/-108V to +/-120V DC nominal				+/-216V to +/-240V DC nominal		
Input							
Nominal Voltage	380/400/415V AC (3Ph+N+E)						
Input Voltage Range	305-485V AC						
Frequency	40-70Hz (50/60Hz Auto-Sensing)						
Power Factor	>0.99						
Output							
Output Voltage	380/400/415V AC (3Ph+N+E)						
Voltage Regulation	+/-1%						
Power Factor	0.9					1	
Crest Factor	3:1						
Efficiency	Up to 93.5%	Up to 94.5%				Up to 95.5%	
User Interface	Colour LCD Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time						
Operating Temperature	0 to 40C						
Humidity Range	0-95% non condensing						
Audible Noise	<55dB at 1m	<58dB at 1m		<61dB at 1m	<64dB at 1m	<60dB at 1m	<62dB at 1m
Communications	RS232, RS485, USB, EPO, Parallel Port (N+x), Ethernet SNMP						
Options	UPS-RC Relay Card with remote control, Battery Monitoring System, Parallel Cable						

FUSECO

Tower 100-200kVA

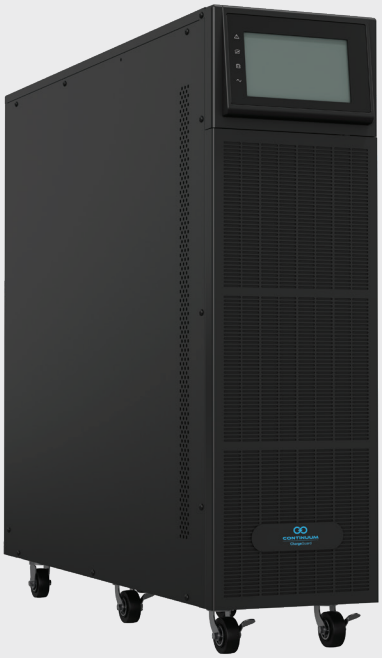
Applications

ChargeGuard tower range is a multi function unit that can be used among a vast range of applications:

- **Energy Efficient Data Centres – Hyperscale**
- **Critical High-Density Computer & IT Environments**
- **Hospital & Medical Critical Applications**
- **Industrial & Commercial Applications**
- **Water / Waste-Water, Desalination Plants**
- **Rail / Transport Critical Applications**
- **Banks, Telecommunication, Education Facilities**

- 100-200 kVA
- Tower
- Long Run Batteries
- Hardwired
- 380/400/415V
- Phase 3:3

CONTINUUM ChargeGuard

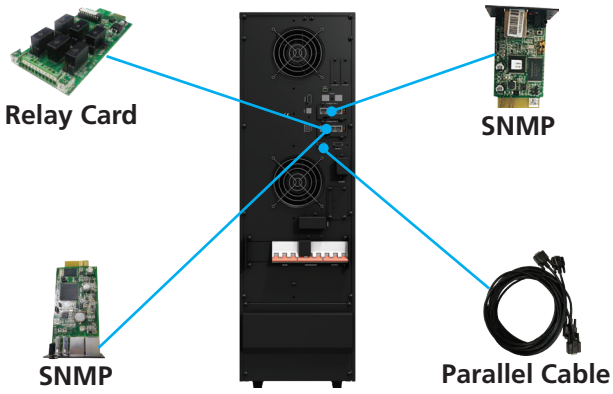


Key Features

- **Wide Input Voltage Range**
  138-485V AC, no derating > 305V AC.
- **Power Saving**
- **Flexible Battery Configuration**
  Batteries number of each group can be selected from 30 pieces to 50 pieces.
- **Ethernet SNMP Card Factory Fitted**
- **N+X parallel redundancy, support a maximum of 6 units in parallel**
- **100% Unbalanced Load Support**
- **Generator Compatible with "Power Walk" in Function**
- **ECO Mode Operation for Energy Saving**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Self Testing when UPS Startup**
  The UPS self-tests its internal circuits.
- **Cold Start**
  Will start without AC mains, on DC Battery only.
- **Input & Output Isolators & Maintenance Bypass Switch on all models**

Optional Accessories

- Relay output card, Battery temperature sensor
- Parallel cable for N+x support



Technical Specifications

ChargeGuard Tower 100-200kVA						
Capacity	100kVA	120kVA	150kVA	160kVA	180kVA	200kVA
Active Power	100W	120W	150kW	160kW	180kW	200kW
External Battery Model						
Nominal Battery Voltage	+/-240V DC (480V DC)					
Maximum Charge Current	40A		60A			
Dimensions (WxDxH mm)	442x850x1200					
Weight (kg)	160	170	200	205	215	220
External Battery Module	BCAB-T-80-240V-N					
Battery Configuration	2 x 40 x BAT-12V9AH (VRLA)					
Dimensions (WxDxH mm)	250x900x868					
Weight (kg)	215					
Custom External Battery	Customised Battery Design (360V to 600V DC nominal)					
Input						
Nominal Voltage	380/400/415V AC (3Ph+N+E)					
Input Voltage Range	305-485V AC					
Frequency	40-70Hz (50/60Hz Auto-Sensing)					
Power Factor	>0.99					
Output						
Output Voltage	380/400/415V AC (3Ph+N+E)					
Voltage Regulation	+/-1%					
Power Factor	0.9					
Crest Factor	3:1					
Efficiency	Up to 95.5%					
User Interface	Colour LCD Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time					
Operating Temperature	0 to 40C					
Humidity Range	0-95% non condensing					
Audible Noise	<62dB at 1m		<63dB at 1m		<64dB at 1m	<66dB at 1m
Communications	RS232, RS485,USB,EPO, Parallel Port (N+x), Ethernet SNMP					
Options	UPS-RC Relay Card with remote control, Battery Monitoring System, Parallel Cable					

ChargePro UPS Systems

The Continuum ChargePro series provides ultimate power protection with intelligent design and superior power. Utilising online double-conversion UPS latest generation technology, it delivers best-in-class performance for up to 1200kVA applications, featuring compact size, high power density, class-leading efficiency and flexible configurations to ensure that you have a reliable option for all of your requirements.

ChargePro has been designed to protect critical data & information infrastructure, teleco systems, networks & services requiring high power ratings and highly reliable power protection. It provides the highest performance for mission-critical applications at the lowest total cost of ownership.

ChargePro is the perfect three-phase white or grey space UPS solution for today's data center. Designed with modular architecture to operate with a minimal impact on its environment (high efficiency and low operating costs), this exceptional UPS offers advanced technology, robust designs & high reliability. Redefining what can be expected from a high-performance UPS system, ChargePro is the definition of trust, integrity and reliability.

- **True Online double conversion with full digital control. Converts the mains into DC then back to regulated AC before exporting to the load.**
- **Pure Sinewave**
  Produces a smooth sinusoidal wave at output.
- **Small Footprint**
  Compact design requires minimal surface area & saves operational real estate.
- **Inbuilt Mains, Output, Maintenance & Bypass Switch**
- **ECO Mode Operation for Energy Saving**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Cold Start**
  Will start without AC mains, on DC Battery only.
- **Self-Testing when UPS Startup**
- **Advanced Communications**
- **N+X parallel redundancy - Supports a maximum of 4 parallel systems (10-30kVA), 6 systems (40-50kVA) or 8 parallel systems.**
- **High Power Density & Efficiency up to 97.1%**
- **VRLA & Lithium Battery Support**
  Flexible charging options for future battery technologies.
- **100% Unbalanced Load Support**
  Tolerates single phase loads on a three phase network.
- **Generator Compatible with Power Walk in Function**
  Avoids demand shock to an upstream generator, providing a reliable transfer.
- **Wide Input Voltage Range (138-485V AC, no derating > 305V AC).**
- **Ethernet SNMP Card Factory Fitted**
- **Robust & Reliable Construction**
  All PCBs are conformally coated.

Range

10-50 kVA - Rack / Tower

- Long Run
- Hardwired
- 380/400/415V
- Phase 3 : 3

10-1200 kVA - Modular

- Full Redundancy Options
- Hot Swap Modules
- 380/400/415V
- Phase 3 : 3

200-1000 kVA - Monolithic

- Long Run
- Hot Swap Modules
- 380/400/415V
- Phase 3 : 3

Rack / Tower 10-50kVA

Applications

ChargePro rack tower range is a multi function unit that can be used among a vast range of applications:

- **Energy Efficient Data Centres – Hyperscale**
- **Critical High-Density Computer & IT Environments**
- **Hospital & Medical Critical Applications**
- **Industrial & Commercial Applications**
- **Water / Waste-Water, Desalination Plants**
- **Rail / Transport Critical Applications**
- **Banks, Telecommunication, Education Facilities**

- 10-50 kVA
- Rack / Tower
- Long Run Batteries
- Hardwired
- 380/400/415V
- Phase 3:3

CONTINUUM ChargePro

Key Features

- **Rack/Tower Convertible Design with rotating display**
  Customer may choose to mount the UPS in a data rack or as a tower configuration.
- **True Online Double Conversion**
  Converts the mains into DC then back to regulated AC before exporting to the load.
- **High Power Density/Efficiency up to 95.5%**
- **N+X parallel redundancy, support a maximum of 4 units (10-30kVA) & 6 units (40-50kVA)**
- **Wide Input Voltage Range**
  138-485V AC, no derating > 305V AC.
- **100% Unbalanced Load Support**
- **Generator Compatible with Power Walk in Function**
- **ECO Mode Operation for Energy Saving**
  Optimises the online process by putting the UPS into Active Standby mode.
- **Self Testing when UPS Startup**
- **Cold Start**

Optional Accessories

- Relay output cards, temperature sensor
- Rack mount kit
- Parallel redundancy cable

Rear

Technical Specifications

ChargePro Rack Tower 10-50kVA							
Capacity	10kVA	15kVA	20kVA	25kVA	30kVA	40kVA	50kVA
Active Power	10kW	15kW	20kW	25kW	30kW	40kW	50kW
Nominal Battery Voltage	+/-240V DC (480V DC)						
Maximum Charge Current	18A					20A	
Dimensions (WxDxH)	440x670x130 (3RU)					440x800x175 (4 RU)	
Weight (kg)	25	27		28		45	48
External Battery Module	BCAB-T-80-240V-N						
Battery Configuration	2 x 40 x BAT-12V9AH (VRLA)						
Dimensions (WxDxH mm)	250x900x868						
Weight (kg)	215						
Custom External Battery	Customised Battery Design (360V to 600V DC nominal)						
Input							
Nominal Voltage	380/400/415V AC (3Ph+N+E)						
Input Voltage Range	305-485V AC						
Frequency	40-70Hz (50/60Hz Auto-Sensing)						
Power Factor	>0.99						
Output							
Output Voltage	380/400/415V AC (3Ph+N+E)						
Voltage Regulation	+/-1%						
Power Factor	1						
Crest Factor	3:1						
Efficiency	Up to 95.5%						
User Interface	Colour LCD Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time						
Operating Temperature	0 to 40C						
Humidity Range	0-95% non condensing						
Audible Noise	<55dB at 1m					<56dB at 1m	<58dB at 1m
Communications	RS232, RS485,USB,Parallel Port (N+x)(LBS), Ethernet SNMP, Backfeed Port, Programmable 4DI/4RO Port, REPO, Battery Temp Input, Expansion Port						
Options	19 inch Rack Mounting Kit, UPS-RC Relay Card, Battery Monitoring System, Battery Temperature Sensor, Parallel Cable						

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Modular 10-1200kVA

Applications

ChargePro modular range is for the most demanding and critical applications:

- **Energy Efficient Data Centres – Hyperscale**
- **Critical High-Density Computer & IT Environments**
- **Hospital & Medical Critical Applications**
- **Industrial & Commercial Applications**
- **Water / Waste-Water, Desalination Plants**
- **Rail / Transport Critical Applications**
- **Banks, Telecommunication, Education Facilities**

- 10-1200 kVA
- Modular
- Full Redundancy Options
- Hot Swap Modules
- Scalable Design
- Inbuilt Isolation Switches

CONTINUUM ChargePro

Key Features

- **Hot Swappable Modules**
  Converts the mains into DC and then back to regulated AC before exporting to the load.
- **Robust & Reliable Construction**
  All PCBs are conformally coated.
- **Inbuilt Mains, Output, Maintenance & Bypass Switch**
- **Supports 100% Unbalanced Loads**
  Tolerates single phase loads on a three phase network.
- **Ethernet SNMP Card Factory Fitted**
- **High Power Density/Efficiency up to 97.1%**
- **Wide Input Voltage**
  138-485V AC, no derating > 305V AC.
- **VRLA & Lithium Battery Support**
  Flexible charging options for future battery technologies.
- **Advanced Communications**
- **N+X parallel redundancy - Supports a maximum of 4 parallel systems (10-30kVA) & 6 systems (40-50kVA)**
- **Generator Walk-In**

Optional Accessories

- Top or bottom cable entry
- Battery temperature sensor
- Battery temperature & impendence measuring system

Technical Specifications

ChargePro Modular 10-1200kVA							
UPS System Capacity	10-60kVA	15-75kVA	20-100kVA	25-125kVA	30-150kVA	40-480kVA	500-1000kVA
Cabinet Dimensions (WxDxH mm)	600x850x1200					Available on request	
External Battery	Customised Battery Design (360V to 600V DC nominal) VRLA or Lithium Support						
Module Battery Charge Current	18A (max.)					20A (max.)	
ChargePro Module							
Module Capacity	10kVA	15kVA	20kVA	25kVA	30kVA	40kVA	50kVA
Active Power	10kW	15kW	20kW	25kW	30kW	40kW	50kW
Dimensions (WxDxH mm)	440x670x86 (2RU)					440x800x130 (3RU)	
Module Weight (kg)	19	21				33	34
UPS System Configuration Types							
Standard Configuration	Control module, Bypass module, Maintenance switch , Top/Bottom Entry option, Hot Swap modules						
Full Specification Configuration	Control module, Bypass module, Mains Input switch, Output switch, Maintenance switch, Bypass switch, Top/Bottom Entry option, Hot Swap modules						
Input							
Nominal Voltage	380/400/415V AC (3Ph+N+E)						
Input Voltage Range	305-485V AC						
Frequency	40-70Hz (50/60Hz Auto-Sensing)						
Power Factor	>0.99						
Harmonic Current Distortion	< 3% (Linear Load)						
Output							
Output Voltage	380/400/415V AC (3Ph+N+E)						
Voltage Regulation	+/-1%						
Power Factor	1						
Crest Factor	3:1						
Efficiency	Up to 95.8%					Up to 97.1%	
User Interface	Colour LCD Display -Input/Battery/Output Voltage , Input/Output Frequency, Load %, Remaining Backup Time, Event Recording, Operation Mode						
Operating Temperature	0 to 40C						
Humidity Range	0-95% non condensing						
Audible Noise	<55dB at 1m					<56dB at 1m	<58dB at 1m
Communications	RS232, RS485, USB, Parallel Port (N+x)(LBS)(CAN-BMS), Ethernet SNMP, 4DI, Programmable 6RO Port, REPO, Battery Temperature (RS485 2 wire)						
Options	Battery Monitoring System, Battery Temperature Sensor, Parallel Cable						

FUSECO

Monolithic 200-1000kVA

Applications

ChargePro monolithic range is a fully featured UPS for the most demanding and larger critical applications:

- **Energy Efficient Data Centres – Hyperscale**
- **Critical High-Density Computer & IT Environments**
- **Hospital & Medical Critical Applications**
- **Industrial & Commercial Applications**
- **Water / Waste-Water, Desalination Plants**
- **Rail / Transport Critical Applications**
- **Banks, Telecommunication, Education Facilities**

- 200-1000 kVA
- Monolithic
- Long Run Batteries
- Hot Swap Modules
- 380/400/415V
- Phase 3:3

CONTINUUM ChargePro

Key Features:

- **Robust & Reliable Construction**
  All PCBs are conformally coated.
- **Inbuilt Mains, Output, Maintenance and Bypass Switch**
- **Supports 100% Unbalanced Loads**
  Tolerates single phase loads on a three phase network.
- **High Power Density/Efficiency up to 97.1%**
- **Wide Input Voltage Range**
  138-485V AC, no derating > 305V AC.
- **Ethernet SNMP Card Factory Fitted**
- **VRLA & Lithium Battery Support**
  Flexible charging options for future battery technologies.
- **Advanced Communication Options**
- **N+X parallel redundancy - Supports a maximum of 8 parallel systems**
- **Generator Walk-In**
  Avoids demand shock to an upstream generator, providing a reliable transfer.

Optional Accessories

- Parallel redundancy cables
- Battery temperature sensor
- Battery temperature & impendence measuring system

Technical Specifications

ChargePro Monolithic 200-1000kVA								
System Capacity	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA	800kVA	1000kVA
Active Power	200kW	250kW	300kW	40kW	500kW	600kW	800kW	1000kW
Dimensions (WxDxH mm)	600x850x2000				1200x850x2000		2000x850x2000	
System Weight (kg)	360	400	480	530	800	890	1450	1600
External Battery	Customised Battery Design (360V to 600V DC nominal) VRLA or Lithium Support							
Module Battery Charge Current	80A (max.)	100A (max.)		140A (max.)	180A (max.)	200A (max.)	280A (max.)	340A (max.)
UPS System Configuration Types								
Standard Configuration	Control module, Bypass module, Maintenance switch , Top/Bottom Entry option, Hot Swap modules							
Full Specification Configuration	Control module, Bypass module, Mains Input switch, Output switch, Maintenance switch, Bypass switch, Top/Bottom Entry option, Hot Swap modules							
Input								
Nominal Voltage	380/400/415V AC (3Ph+N+E)							
Input Voltage Range	305-485V AC							
Frequency	40-70Hz (50/60Hz Auto-Sensing)							
Power Factor	>0.99							
Harmonic Current Distortion	< 3% (Linear Load)							
Output								
Output Voltage	380/400/415V AC (3Ph+N+E)							
Voltage Regulation	+/-1%							
Power Factor	1.0							
Crest Factor	3:1							
Efficiency	Up to 97.1%							
User Interface	Large Colour LCD Display -Input/Battery/Output Voltage, Input/Output Frequency, Load %, Remaining Backup Time, Event Recording, Operation Mode							
Operating Temperature	0 to 40C							
Humidity Range	0-95% non condensing							
Audible Noise	<65dB at 1m		<68dB at 1m		<70dB at 1m		<73dB at 1m	<75dB at 1m
Communications	RS232, RS485,USB, Parallel Port (N+x) (LBS)(CAN-BMS), Ethernet SNMP, 4DI, Programmable 6RO Port, REPO, Battery Temperature (RS485 2 wire)							
Options	Battery Monitoring System, Battery Temperature Sensor, Parallel Cable							

Notes