

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



ChargeGuard - 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

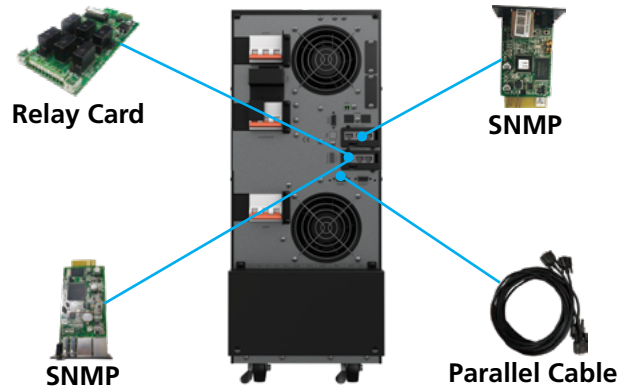
Key Features:

- **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.

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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	9kW	13.5kW	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)	250 x 619 x 616 or 250 x 900 x 868				250 x 900 x 868		
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
Crest Factor	3:1
Efficiency	Up to 93.5%
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
Communications	RS232, RS485, USB, EPO, Parallel Port (N+x), Ethernet SNMP
Options	UPS-RC Relay Card with remote control, Battery Monitoring System, Parallel Cable