

GTC - MW MEGAWATT SERIES

300 ~ 400 ~ 500 ~ 600 ~ 700 ~ 800 ~ 1000kVA/kW

3:3

PHASE

ONLINE UPS



kVA=kW

96.6%
Efficiency

**IGBT
3Level
Topology**



UPS ONLINE



TOWER



POWER FACTOR



SERVICE



HIGHLIGHTS

- 3-Level Rectifier and Inverter adopts IGBT Topology
- Ultra High Energy Efficiency >**96.6%**
- Full Rated Power Factor kVA=kW
- Parallel expansion to reach upto 8 MW
- N+N, N+1 redundancy mode configurable
- Automatic input phase reversal protection
- High input voltage range saves battery power
- Compatible for 100% regenerative loads with bidirectional power converters

Innovative 3-Level Topology

- GTC-MW Series with Innovative 3-Level Topology is a true on-line double conversion, three-phase UPS system that provides one of the highest level energy efficiencies in the industry.
- 3-level inverter & rectifier design GTC-MW Series brings the newest power conversion technology and delivers efficiency up to 96.6% at 40-70% load operation which is the most common operating range.



Technical Specifications

MODEL		GTC-MW33 X L40				X =kVA		
Capacity		300 kVA	400 kVA	500 kVA	600 kVA	700 kVA	800 kVA	1000 kVA
INPUT								
Nominal Voltage		380/400/415 VAC 3 P+N+PE (4W) / 3 P+N (3W)						
Voltage Tolerance		-20% +15%						
Frequency Tolerance		50Hz ±10%						
Power Factor		>0.99						
Total Harmonic Distortion (THDi)		<3%						
OUTPUT								
Power Factor		1, kVA=kW						
Nominal Voltage		380/400/415 VAC 3 P+N+PE (4W) / 3 P+N (3W)						
Voltage Tolerance		Static ±1, Dynamic ±3%						
Frequency Tolerance		50Hz						
Output THD		Linear Load <2 %, Non-Linear Load <3%						
Crest Factor		3:1						
Overload Capacity*		110% for 60min, 125% for 10min, 150% for 1min.						
Efficiency (Online Mode)		96.6%						
Efficiency (EHS Mode)		98.5%						
Efficiency (ECO Mode)		99.0%						
BYPASS								
Nominal Voltage		380/400/415 VAC 3 P+N						
Voltage Tolerance		±10%						
BATTERY								
Type		VRLA, Ni-Cd, Li-ion						
DC Voltage		480V DC Standard, Configurable upto 576V DC (40 to 48 no 12V DC)						
Recharge Time		6-8 hours						
Internal Battery		External Battery						
ENVIRONMENTAL								
Operating Temperature		For UPS 0°C to +40°C						
Storage Temperature		For UPS -15°C to +60°C						
Protection Class		IP20						
Humidity		0-95% (Without Condensation)						
Altitude		1000m above MSL without derating						
Noise Level		<70dBA			<75dBA			
COMMUNICATION								
Communication Port & Display		Modbus/TCP, Modbus/RS485, RS 232, SNMP; Graphical touch screen LCD Display						
STANDARDS								
Quality		ISO 9001, ISO 14001, ISO 27001, ISO 45001, ISO 50001						
Performance		EN62040-3						
EMC/LVD		EN62040-2, EN62040-1						
DIMENSIONS & WEIGHT		300 kVA	400 kVA	500 kVA	600 kVA	700 kVA	800 kVA	1000 kVA
Cabinet Dimensions (mm)	Width	1200				1800		2000
	Depth	1000				1000		1000
	Height	2000				2000		2000
Net Weight (kg)		524	614	702	747	1015	1113	1330

* Conditions Apply
Specifications are subject to change without prior notice.



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Best Power Equipments India Pvt. Ltd.

Corporate Office: G-240, Sector-63, Distt. Gautam Buddh Nagar, Noida-201307 UP
Registered Office: 812A, Shakuntala Building, 59, Nehru Place, New Delhi-110019
PH: +91 120 4637000-0029 | Mobile: +91 9311995859 | Email: crm@bpee.co.in
support@bpeindia.com | Toll Free: 1800 103 1247 | Website: www.bpee.com

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