

Zeus2 Series 208/220V

FTP-210K
FTP-215K
FTP-220K
FTP-230K
FTP-240K



The Forza Zeus2 3-Phase UPS is a unique solution for the ever-changing demands of data centers, networks, and office facilities. Built for easy deployment, the Zeus 2 series is a scalable UPS that combines the highest level of reliability with the lowest cost of ownership in the 10KVA-40KVA range. The ability to configure the Zeus2 in parallel adds redundancy to power infrastructures, reducing the overall risk for valuable equipment. The Forza Zeus2 3-phase online double conversion tower UPS is renowned for its unparalleled efficiency and reliability. Available in capacities ranging from 10KVA/10KW to 40KVA/40KW, it stands as the ultimate solution for safeguarding mission-critical operations with seamless battery backup support within the 220V domain.

Highlights

- 10KW, 15KW, 20KW, 30KW & 40KW capacities
- Online UPS with double-conversion topology
- DSP technology guarantees high performance
- Certified under UL standards
- Output power factor of 1
- Wide input voltage range (110V-300VAC)
- High efficiency up to 95%
- Active input power factor correction of 0.99
- 50Hz/60Hz frequency converter mode
- Environmentally friendly ECO mode of operation, up to 98% efficiency
- Emergency power off function EPO
- Generator compatible
- SNMP/USB/RS-232 communication ports
- Expanded capacity up to 40KVA
- Extended runtime with optional battery banks
- 3-stage extended charging design for optimized battery performance
- Built-in maintenance bypass available
- Optional N+X parallel redundancy

Technical specifications

MPN	FTP-210K	FTP-215K	FTP-220K	FTP-230K	FTP-240K
General					
Capacity	LV 10KVA / 10KW	LV 15KVA / 15KW	LV 20KVA / 20KW	LV 30KVA / 30KW	LV 40KVA / 40KW
Topology	True Double Conversion				
Phase	3-Phase In / 3-Phase Out				
Input					
Nominal Voltage	3 x 208/220 VAC (Ph-Ph) 3 x 120/127 VAC (Ph-N)				
Voltage Range	121 - 277VAC @ 50% load 152 - 253VAC @ 100 load				
Voltage Range (Low Line Comeback)	Line Low Loss + 5V				
Voltage Range (High Line Transfer)	156V (Ph-N)@ load > 50% 146V (Ph-N)@ load ≤ 50%				
Voltage Range (High Line Comeback)	Line High Loss -5V				
Frequency	46~54 Hz / 56~64 Hz				
Nominal input current	38.9A	59.8A	74.9A	108.0A	138.2A
Maximum input current	46.6A	69.2A	93.1A	139.7A	186.3A
Input current limitation	63A (input breaker)	80A (input breaker)	80A (input breaker)	125A (input breaker)	175A (input switch)
Maximum short circuit withstand	5kA				
Power factor	1				
Total harmonic distortion (THDi)	±3%				
Connection type	Terminal block				
Output					
Nominal voltage	3 x 208/220 VAC (Ph-Ph) 3 x 120/127 VAC (Ph-N)				
Ac voltage regulation (battery mode)	< 1% Typical (balanced load) < 2% Typical (unbalanced load)				
Frequency (synchronized range)	46 ~ 54 Hz @ 50Hz system (adjustable) 56 ~ 64 Hz @ 60Hz system (adjustable)				
Frequency (battery mode)	46 ~ 54 Hz @ 50Hz system (adjustable) 56 ~ 64 Hz @ 60Hz system (adjustable)				
Nominal output current	27.8A	41.7A	55.6A	83.3A	111.1A
Slew rate	0.5 Hz/ 1 sec				
Power factor	PF = 1				
Efficiency (AC mode)	94% @ 100% R load				
Efficiency (battery mode)	93% @ 100% R load				
Overload	1 hr @ 100% < load ≤ 110%, line mode 1 min @ 110% < load ≤ 130%, line mode 1 sec @ load > 130%, line mode 30 sec @ 100% < load ≤ 110%, battery mode 10 sec @ 110% < load ≤ 130%, battery mode 1 sec @ load > 130%, battery mode				
Joules	Total 3430 J	Total 5460 J	Total 5460 J	Total 5460 J	Total 5460 J
Transfer time (line to battery)	0 ms				
Transfer time (inverter to bypass)	0 ms				
Crest ratio	3:1 max				
Total harmonic distortion (THDv)	≤4% @ PF≥0.8, full RCD load ≤2% @ full R load				
Waveform	Sine wave				
Connection type	Terminal block				



Technical specifications

MPN	FTP-210K	FTP-215K	FTP-220K	FTP-230K	FTP-240K
Batteries					
Battery type and quantity	12V/9Ah Lead acid (40 pcs)	12V/9Ah Lead acid (60 pcs)	12V/9Ah Lead acid (60 pcs)	Lead acid/ external battery only	Lead acid/external battery only
Recharge time	3 hr reach 90% SOC @12A/36Ah	4.5 hr reach 90% SOC @12A/54Ah	4.5 hr reach 90% SOC @12A/54Ah	Depends on battery capacity	
Charging current	12A MAX	12A MAX		16A MAX	
Charging voltage	140V				
Float voltage	136.5V				
End of discharge voltage	107V @ 0% < load ≤ 30% 102V @ 30% < load ≤ 70% 9.6V @ 70% < load			107V	
Max. charging power	2880 W			3840 W	
Backup Time	10 min @9Ah/40 PCS	10 min @9Ah/60 PCS	7 min @9Ah/60 PCS	Depends on battery capacity	
Communications					
Lcd display	4.3-inch touch panel				
Visual indicators	Led light				
Audible	Buzzer				
Communication ports	USB port - type B				
Power management software	Forza Tracker				
Special features					
"Cold start" option	with cold start button				
Auto charge	Yes				
Environment					
Operating temperature	0°C ~ 40°C (Nominal power & continuous operating mode)				
Storage temperature	-15 ~ 60°C (UPS) 0 ~ 35 °C (Battery)				
Relative humidity	0 - 95% (No condensing)				
Operating altitude	<1000m for Nominal power (Over 1000m the power derating is 1% every 100m)				
Audible noise	≤60 dB	≤60 dB	≤60 dB	≤60 dB	≤60 dB
Physical appearance					
Audible noise	Main input -> breaker bypass input -> breaker maintenance bypass -> breaker output -> breaker	Main input -> breaker bypass input -> breaker maintenance bypass -> breaker output -> breaker	Main input -> breaker bypass input -> breaker maintenance bypass -> breaker output -> breaker	Main input -> breaker bypass input -> breaker maintenance bypass -> breaker output -> breaker	Main input -> mbs bypass input -> breaker maintenance bypass -> breaker output -> breaker
Housing	Tower				
Color	Black				
Product dimensions	2.2 x 0.8 x 2.7 ft (WxHxD)	2.83 x 1 x 3.35 ft (WxHxD)		2.6 x 1.4 x 3.9 ft (WxHxD)	
Product weight	332.9 lb.	509.3 lb.	509.3 lb.	330.7 lb.	352.7 lb.
Warranty	2 years				

