

Zeus 2 Series

380V

FTP-310K
FTP-315K
FTP-320K
FTP-330K
FTP-340K
FTP-360KB
FTP-380KB



The Forza Zeus 2 three-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 380V model is a scalable UPS that combines the highest level of reliability with the lowest cost of ownership in the 10KVA-80KVA range. The ability to configure the Zeus 2 series in parallel adds redundancy to power infrastructures, reducing the overall risk for valuable equipment. True online double conversion UPS of the highest efficiency for all mission critical battery backup operations.

Highlights

- 10KW, 15KW, 20KW, 30KW, 40KW, 60KW and 80KW capacities
- Online 3-phase UPS with double-conversion topology
- DSP technology guarantees high performance
- 220V nominal operation
- Output power factor of 1
- High input voltage range (380/400/415VAC)
- High efficiency up to 95%
- Active input power factor correction of 0.99
- 50Hz/60Hz frequency converter mode
- Environmentally friendly (ECO) mode of operation
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communication ports
- Expanded capacity up to 480KVA
- 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-310K	FTP-315K	FTP-320K	FTP-330K	FTP-340K	FTP-360KB	FTP-380KB
Specification	Zeus 2 380V						
General							
Capacity	HV10KVA/10KW	HV15KVA/15KW	HV20KVA/20KW	HV30KVA/30KW	HV40KVA/40KW	HV60KVA/60KW	HV80KVA/80KW
Topology	True Double Conversion						
Phase	3-Phase In / 3-Phase Out						
Input							
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)						
Voltage Range (Low Line Transfer)	110 VAC (Ph-N) $\pm 3\%$ at 50% Load; 176 VAC(Ph-N) $\pm 3\%$ at 100% Load						
Voltage Range (Low Line Comeback)	Low Line Loss Voltage + 10V						
Voltage Range (High Line Transfer)	300 VAC (L-N) $\pm 3\%$ at 50% Load; 276 VAC(L-N) $\pm 3\%$ at 100% Load						
Voltage Range (High Line Comeback)	High Line Loss Voltage - 10V						
Frequency	46Hz ~ 54 Hz @ 50Hz system 56Hz ~ 64 Hz @ 60Hz system						
Nominal input current	16.1A	24.1A	32.2A	48.2A	64.4A	96.4A	128.8A
Maximum input current	20.74A	31.57A	39.63A	55.73A	71.83A	104.04A	148.61A
Input current limitation	25A	63A	63A	80A	100A	125A	160A
Maximum Short Circuit Withstand	6KA	6KA	6KA	6KA	10KA	10KA	10KA
Power Factor	≥ 0.99 at 100% Load						
Total harmonic distortion (THDi)	$\leq 4\%$ @ full linear load						
Connection Type	3 Phase with Neutral and Ground						
Output							
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)						
AC Voltage Regulation (Battery Mode)	$\pm 1\%$						
Frequency (Synchronized Range)	46 ~ 54 Hz @ 50Hz system 56 ~ 64 Hz @ 60Hz system						
Frequency (Battery Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz						
Nominal output current	14.49A	21.74A	29A	43.48A	57.97A	86.96A	115.94A
Slew rate	1 Hz/s						
Power Factor	1						
Efficiency (AC Mode)	94%	94.50%		95.50%			
Efficiency (Battery Mode)	94%	94.00%		94.50%			
Overload	100%~110%: 60min; 110%~125%: 10min; 125%~150%:1min;>150% : immediately						
Joules	L1/L2/L3 to N 490J, L1/L2/L3/N to ground 490J						
Transfer Time (Line to Battery)	0 ms						
Transfer Time (Inverter to Bypass)	0 ms (When phase lock fails, <4ms interruption occurs from inverter to bypass)						
Crest Ratio	3:1 max						
Total harmonic distortion (THDv)	$\leq 2\%$ @ 100% Linear Load; $\leq 5\%$ @ 100% Non-linear Load						
Waveform	Sine wave						
Connection Type	3 Phase with Neutral and Ground						
Batteries							
Battery Type and Quantity	Lead-acid 9Ah 10+10	Lead-acid 9Ah 16+16	Lead-acid 9Ah 16+16	Lead-acid 7Ah (16+16) $\times 2$	Lead-acid 9Ah (16+16) $\times 2$	NA	
Recharge Time	3	4	4	6	8	NA	
Charging Current	0.1C						
Charging Voltage	14.1V/PCS						
Float voltage	13.65V/PCS						
End of discharge voltage	10.7V/pcs (0~30% Load)						
Max. charging power	10.2V/pcs (30~70% Load)						
Backup Time	9.6V/pcs (>70% Load)						
Communications							
LCD Display	5" LCD						
Visual Indicators	Main parameter, warning and fault code						
Audible	Yes						
Communication Ports	RS232,USB,SNMP						
Power Management Software	Forza Tracker						
Special Features							
"Cold Start" Option	Included						
Auto Charge	Included						



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Environment								
Operating Temperature	at 0°C ~ 40 °C							
Storage Temperature	at -15°C~60°C							
Relative Humidity	0-95% No condensing							
Operating Altitude	<4000m, over 1000m the power derating is 1% every 100m							
Audible Noise	8dB	60dB	60dB	65dB	70dB	70dB		
Physical Appearance								
Housing	Metal	Metal	Metal	Metal	Metal	Metal		
Color	Black	Black	Black	Black	Black	Black		
Product dimensions (D x W x H mm)	630×250×826	630×250×826	630×250× 826	815×300×1000	815×300×1000	815×300×1000	790 × 360 × 1010	
Product weight	93.5kg	127kg	127kg	206kg	231kg	90kg	116kg	
Special Features								
Warranty	2 years							

*If the UPS is installed or used in a place where the altitude is above 1000m, the output power must be derated 1% per 100m.

**Product specifications are subject to change without further notice.

