

TG+ Series 3/3, 3/1

Low Frequency Online UPS

10kVA~100kVA

3Phase Input/ 1Phase Output

10kVA~1000kVA

3Phase Input/ 3Phase Output



Product

The TG+ series are Low Frequency UPS, which is commonly use in Industrial Power Supply. This Industrial UPS series is a Transformer Based UPS , which adopts Online Double Conversion technology to provide more comprehensive and complete protection for the equipment. Remote monitoring and network management through human-machine dialogue. The system has high system efficiency and complete protection functions.

It adopts the world's most advanced DSP digital control technology. It breaks through the technical bottleneck of the UPS industry, replaces the traditional analog circuit with an advanced digital circuit system, and realizes the parallel redundancy function of multiple UPS. It is an extraordinary innovation of EPI. In the digital circuit mode, the high-speed microcontroller and programmable logic device have more perfect circuit control, parameter setting and operation management, and the self-test and self-detection functions are more powerful.

- Output transformer
- With optional 12 pulse rectifier
- Human-machine dialogue with the remote monitoring and network management
- Allowing 100% to balance working
- Intelligent battery management function to
- Protect the function is all ready
- Sound and light alarm
- A variety of voltage output
- Color optional
- Load protection ability
- Strong adaptability to the environment
- High battery optimize performance
- Network Management
- Energy saving and environmental protection design

Application

Data Center, the network computer room, intelligent precision equipment, the financial, telecommunications, insurance, transport, taxation, military, security, enegy, education, government, manufacturing and other industries etc.

Features

- High reliable static switch
- Self diagnose and self protection
- Rechargeable battery intelligent management
- Strong English display interface
- Double transformation is on-line design
- Flexible weaver technology
- System with high efficiency



160-800kVA

Model	TG+3110	TG+3115	TG+3120	TG+3130	TG+3140	TG+3150	TG+3160	TG+3180	TG+31100
Capacity	10 kVA	15 kVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	80 kVA	100 kVA
Input									
Phase	3 Phase + Neutral + Ground, 380V/400V/415V (L-L voltage)								
Input voltage range	304-456 VAC								
Input frequency range	50/60 Hz \pm 5%								
Input PF	> 0.9								
Output									
Rated voltage	220/230 VAC								
Voltage regulation	\pm 1%								
Rated frequency	50/60 Hz								
Frequency precision	\pm 0.05%								
Output PF	0.9								
Output THDu	\leq 2% (linear load); \leq 3% (non-linear load)								
Crest factor	3 : 1								
Inverter overload	5 min @ 110 - 150% load; 300 ms @ > 150% load								
Battery									
Voltage	192Vdc					384Vdc			
Battery type	Sealed maintenance-free lead- acid batteries								
Charging time	8 - 10 hours recharged to 90%								
Backup time	Depending on the external batteries								
System									
Efficiency	92%					93%			
Protection function	Output short-circuit protection; current-limiting protection								
Transfer time	Normal mode to battery mode, 0 ms								
Display	LCD+LED+Keyboard								
IP Class	IP 20								
Communication interface	RS232, SNMP card (optional)								
Temperature	Operation; 0 - 40 °C, Storage ; -25 - 55 °C								
Relative humidity	0 - 95%, no-condensing								
Altitude	<1500, Within 1500 to 4000m, power capacity decreases by 1% per 100m increasing in altitude								
Noise (1 m away)	<55 dB					<68 dB			
Physical									
Weight (kg)	155	240	297	336	352	355	415	468	550
Dimension (W*D*H)mm	720x450x1130			855x450x1230			1000x660x1460		

Model	TG+33010	TG+33015	TG+33020	TG+33030	TG+33040	TG+33060	TG+33080	TG+33100	TG+33120
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA
Input									
Phase	3-phase+N+G								
Rated Voltage	380/400/415Vac								
Input Voltage Range	285-475Vac								
Rated Frequency	50/60Hz								
Input Frequency Range	50Hz±10%, 60Hz±10%								
THDi	<10%								
Soft Start	1-100%, 5 seconds								
Bypass									
Phase	3-phase+N+G								
Voltage Range	380/400/415Vac ±15%								
Frequency Range	50/60Hz±10%								
Output									
Rated Voltage	380/400/415Vac								
Voltage Regulation	±1% for balance load; ±3% for unbalance load								
Rated Frequency	50/60Hz								
Frequency Precision	50/60Hz±0.05% (Battery mode)								
Output PF	0.9								
THDu	<2% (linear load); <4% (non-linear load)								
Crest Factor	3:1								
Dynamic Voltage Transient	<5% (from 0 to 100% load)								
Transient Recovery Time	<10ms (±5%)								
Inverter Overload	125% load for 10 mins; 150% load for 1min								
Battery									
Voltage	384Vdc								
Battery Type	Sealed maintenance-free lead-Acid Battery								
Charging Voltage	Float charging: 405Vdc; boost charging: 435Vdc								
Charging Current	1-50A, settable according the battery capacity								
System									
Efficiency	91%								
Protection Function	Output short circuit protection; current-limiting protection								
Transfer Time	Normal mode to battery mode, 0ms								
Display	LCD + LED + Keyboard								
IP Class	IP20								
Communication Interface	RS232, RS485(optional), SNMP Card (optional)								
Temperature	Operation: 0-40 °C; storage: -25-55 °C								
Relative Humidity	0-95%, no-condensing								
Altitude	<1500. Within 1500 to 4000m, power capacity decreases by 1% per 100m increasing in altitude								
Noise (1-meter away)	<55dB								
Physical									
Weight (kg)	84	106	113	117	195	270	344	520	605
Dimension (W*D*H)mm	300*610*810			400*750*1010		450*830*1160		700*800*1500	

Model	TG+33160	TG+33200	TG+33250	TG+33300	TG+33400	TG+33500	TG+33600	TG+33800	TG+331000	
Capacity	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA	800kVA	1000kVA	
Input										
Phase	3-phase+N+G									
Rated Voltage	380/400/415Vac									
Input Voltage Range	285-475Vac									
Rated Frequency	50/60Hz									
Input Frequency Range	45-65Hz									
THDi	< 10%									
Soft Start	1-100%, 5 seconds					1-100%, 5-600 seconds				
Bypass										
Phase	3-phase+N+G									
Voltage Range	380Vac $\pm 15\%$ ($\pm 10\%$, $\pm 15\%$, $\pm 20\%$, settable)									
Frequency Range	50/60Hz $\pm 2\%$ ($\pm 0.5\%$, $\pm 1\%$, $\pm 2\%$, $\pm 3\%$, settable)									
Output										
Rated Voltage	380/400/415Vac									
Voltage Regulation	$\pm 1\%$ for balance load; $\pm 3\%$ for XRbalance load									
Rated Frequency	50/60Hz									
Frequency Precision	50/60Hz $\pm 0.05\%$ (Battery mode)									
Output PF	0.9									
THDu	< 1% (linear load)									
Crest Factor	3:1									
Dynamic Voltage Transient	< 5% (from 0 to 100% load)									
Transient Recovery Time	< 10ms ($\pm 5\%$)									
Inverter Overload	105%-110%, 60mins; 110%-125%, 10 mins; > 150%, 10s									
Battery										
Voltage	384Vdc					480Vdc				
Battery Type	Sealed maintenance-free lead-acid battery									
Charging Voltage	Float charging: 13.5Vdc/block; boost charging: 13.8Vdc/block									
Charging Current	5/10/15/20/25/30/35/40A, settable									
System										
Efficiency	92%									
Protection FXRction	Output short circuit protection; current-limiting protection									
Transfer Time	Normal mode to battery mode, 0ms									
Display	LCD + LED + Keyboard									
IP Class	IP20									
CommXRication Interface	RS232, RS485, SNMP card (optional), dry contact (optional)									
Temperature	Operation: 0-40°C; storage: -25-55°C									
Relative Humidity	0-95%, no-condensing									
Altitude	< 1500. Within 1500 to 4000m, power capacity decreases by 1% per 100m increasing in altitude									
Noise (1-meter away)	< 65dB					< 68dB				
Physical										
Weight (kg)	702	800	850	1350	1550	1900	2500	3200	4000	
Dimension (W*D*H)mm	700*800*1500			700*800*1700		1400*1000*1900		2400*1200*1950		2800*1400*2000



EPI UPS (Asia-Pacific) Pte Ltd
(a member of EPI UPS Group)

Email: sales@epi-ups.com
www.epi-ups.com

EPI UPS (Italy) SRL
Via Decio Raggi, 411 Forlì
447121, Italy

www.epi-uk.com