

GALAXY PLUS

3:3 10 - 400kVA



The Emmerich's Galaxy Plus series is one of the most reliable for industrial applications and facilities, because of its robustness and unique ventilation design. To increase operation reliability, Galaxy Plus series is allowed to connect two separate power inputs. Emmerich's Galaxy Plus series provide maximum protection with reliable galvanically isolated power and power quality for mission critical loads, including data centres, industrial processes,

telecommunications, security and electro - medical systems. Emmerich's Galaxy Plus series is an on-line double conversion UPS which embedded with isolation transformer.

Galaxy Plus series will eliminate common mode noise and the need to install expensive dedicated circuits.

Galaxy Plus series includes three-phase input and single-phase output versions from 10 to 120 kVA, and three-phase input and output versions from 10 to 800 kVA.

Plus, the reliability of the system can be increased with the installation of several redundant units or it can grow in parallel based on the needs of the installation.



PERFORMANCES

- True online double conversion with DSP control.
- Output power factor 0.9.
- Robust electrical performance to prevent damage from top and bottom connections.
- Screwless cabinet design and fully coating PCBAs to withstand harsh environment.
- Unique ventilation design for effective heat dissipation.
- Accepts dual-mains inputs.
- Front access makes maintenance and replacement easily.
- High short-circuit and overload capabilities.
- Easy integration into existing electrical networks or generator.
- Parallel capability up to 4 units.

MODEL	GPT 10	GPT 15	GPT 20	GPT 30	GPT 40	GPT 60	GPT 80	GPT 100	GPT 120	GPT 160	GPT 200	GPT 250	GPT 300	GPT 400	
PHASE (IN/OUT)	3 PHASE / 3 PHASE														
CAPACITY	10 KVA / 8 KW	15 KVA / 12 KW	20 KVA / 16 KW	30 KVA / 24 KW	40 KVA / 32 KW	60 KVA / 48 KW	80 KVA / 64 KW	100 KVA / 80 KW	120 KVA / 96 KW	160 KVA / 128 KW	200 KVA / 160 KW	250 KVA / 200 KW	300 KVA / 240 KW	400 KVA / 320 KW	
INPUT															
Nominal Voltage	3 x 380 VAC/400 VAC/415 VAC (3Ph + N or 3Ph + N + G)														
Acceptable Voltage Range	304 VAC ~ 456 VAC														
Frequency	50 Hz ±5 Hz (±10%)														
OUTPUT															
Nominal Voltage	3 x 380 VAC/400 VAC/415 VAC (Selectable)														
Connection Type	Hardwire 5-wire (3Ph+N+G)														
Waveform	Pure Sinewave														
Output Voltage	± 1%														
Steady state															
Stability	± 5%														
Transient state															
Frequency	50 Hz														
Frequency Stability	± 1%														
Frequency Synchronisation Range	± 5Hz (Equal to bypass working range)														
Frequency Synchronisation Speed	1~2 Hz/s														
Power Factor	0.8														
Crest Factor	3:1														
Total Harmonic Distortion (THDv)	<2% (Linear Load) <4% (Non-linear Load)														
Dynamic in-rush Voltage Range	0%~100%~>0% (R Load) < ±5% ; 20%~>100%~>20% (R Load) ±3%														
Dynamic Recovery Time (III Grade)	0%~100% RCD load : < 60 ms recover to 90% of nominal voltage														
Phase Displacement	120° ±1% (balanced load) 120° ±2% (imbalances 50% of the load)														
Transfer Time	0 ms														
Overload Capability	0% ~ 110% continuous running; 110% ~ 150% for 10 min~1 min; >160% for 200ms														
Short-circuit Capability	60~100ms														
Transient Response Time	< 5ms														
BYPASS															
Connection Type	Hardwire 5-wire (3Ph+N+G)														
Input Voltage Range	220 VAC ± 25%														
Overload Capability	1.5 In~1.8 In 1h~30s														
Short-circuit Capability	1.8 In ~ >2.0 In 30s~200ms														
SYSTEM															
Efficiency (At Linear Load)	90%	91%					92%					93%			
ECO Mode (Non-parallel models)	Yes														
EPO Function	Yes														
Standard	IEC 61000-4-5 Protection surge, IEC 62040-2 EMC/EMI, IEC62040-1 Safety														
BATTERY & CHARGER															
Rectifier	Type	6 pulse					6 pulse or 12 pulse								
	Rated output voltage	384 VDC													
	Charger voltage	395VDC ~ 435VDC (Adjustable)													
	Charging current(max)	20A	40A					50A					70A		
Battery	Type	Support VRLA Battery													
	Numbers	32 Pcs (29 ~ 32 adjustable)													
	Reverse Diode	No													
	Cold Start	Yes													
PHYSICAL															
IP Protection	IP20 (Default), IP21/IP31 (Option)														
Dimensions, D x W x H (mm)	800 x 800 x 1800					800 x 1200 x 1800				800 x 1600 x 1800			850 x 1630 x 1900	900 x 1700 x 1900	
Net Weight (Kgs)	350	370	420	450	480	730	790	1000	1300	1400	1700	1900	2300	2500	
ENVIRONMENT															
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nominal input voltage, recharging batteries and no overload, 45°C derating to 85% with linear load														
Humidity	0~90% (non-condensing)														
Noise Level	Less than 70dB @ 1 Meter												Less than 72dB @ 1 Meter		
MANAGEMENT															
Modbus RS-232/RS485	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC														
Dry Contacts	6 outputs and 2 inputs														
Optional SNMP	Power management from SNMP manager and web browser														

Product design, colour and specifications are subject to change without further notice.



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