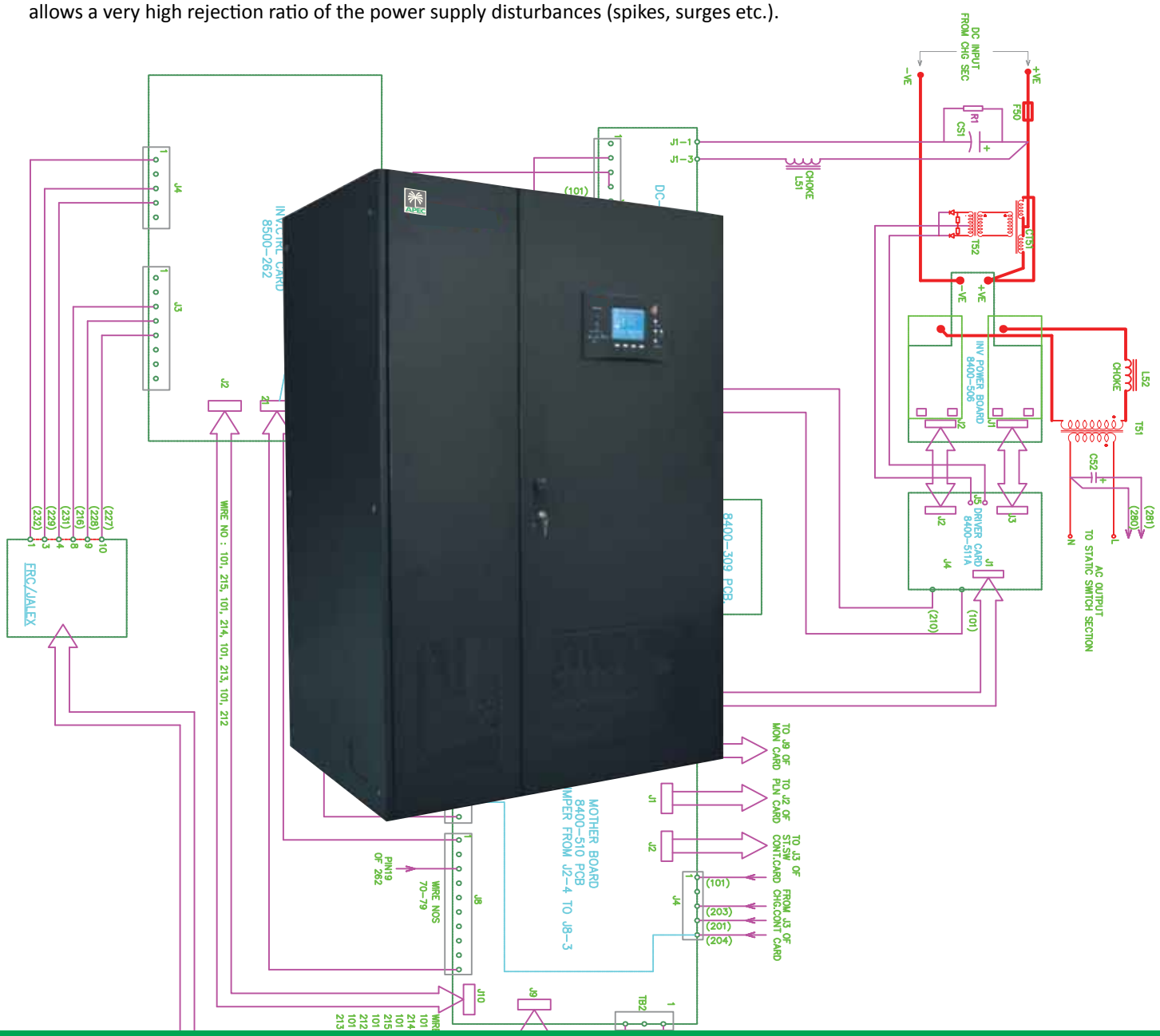
Online UPS

160KVA-600KVA

DIGIGATE Series UPS use double conversion technology with a very advanced design criteria improves the performance of components, minimizes the quantity of raw material used on the magnetics and reduces the number of semiconductors thus reducing servicing time and ownership costs. This UPS have high efficiency(>93%) and input power factor(>0.99) within output isolation transformer. The inverter transformer prevents the direct feed-through of the battery potential into the critical load and allows a very high rejection ratio of the power supply disturbances (spikes, surges etc.).



Applications

Centralized server center, network control center, Information Center, Healthcare, Telecommunication

Specifications

Capacity		160K	200K	250K	300K	400K	500K	600K
Main input								
Rated input voltage		380/400/415V (line voltage)						
Rated input current		200	250	312	375	500	625	750
Max. input current		230	280	350	420	560	700	840
Input connection		3phase 3 wires						
Power factor		>0.99						
Harmonic current		<5%						
Voltage range		Operating range: ±20%; Power on range: ±15%; -10% ~- 20%: load capacity linear derates during 100%~90%						
Frequency Range		50/60Hz ± 5Hz						
Battery input								
Battery Type		Maintenance - free lead acid battery						
No. of Battery		12V battery 50 units						
Floating charge (25℃ -V)		681						
End discharge voltage-V		495						
Providing power to inverter(rated load) kW		132	168	210	253	336	421	506
Max. charging current(Rated Load) A		30						
Providing current to inverter(rated load) A		270	340	425	510	680	850	1020
Battery protection(external)		Auto circuit breaker (fuse box)						
Bypass input								
Input voltage		380/400/415V (line voltage)						
Input voltage range		±20%						
Input connection		3phase 4 wires						
Frequency range		50/60Hz ±5Hz						
Output								
Voltage precision (Balance load)		±1%						
Rated output voltage		380/400/415V (line voltage)						
Rated output current(rated voltage 400V)	Load power factor 0.8	232	290	362	435	580	725	870
	Load power factor 1.0	184	230	287	345	460	575	690
Dynamic Voltage transient		±5%(between 0~100%load)						
Voltage distortion(linear load)		THD<1% (phase voltage)						
Voltage distortion(non-linear load)		THD<5% (phase voltage)						
Power Factor		0.8						
Frequency tacking range		50Hz ± 3Hz						
Frequency precision(battery mode)		± 0.1%						
Frequency tacking rate		<1Hz/s						
Phase tolerance		120 ±1° (balance or unbalance load)						
Voltage unbalance degree at 100% unbalance load		±2%						
Overload capacity		105%<load<110%, Transfer to bypass after 60 minute 111%<load<125%,Transfer to bypass 10 minutes 125%<load<150%, Transfer to bypass after 1 minutes 150%<load<200%, Trasfer to bypass after 200 ms load>=200%, Power off after 100ms						
Bypass overload capacity		150%rate current, long time operation; 150 200%, power off after 1 minute; load>=200%, power off after 100ms						
Output current crest rate		3:1						
Transfer time(normal mode)		0s						
Transfer time(ECO mode)		About 20ms						
System								
System switch frequency		8kHz						
System efficiency(linear load)		93%						
Battery Inversion efficiency(linear load)		95%						
Display		LCD+LED						
EMC/EMI	Conduction/radiation	FCC Part 15, Class A						
	Harmonic current	IEC61000-3-12						
	Immunity	EN61000-4-2.3.4..6.8.9.11 Level III, EN 61000-4-5 Level IV						
Safety requirement								
Noise (1m)		<65dB	<65dB	<65dB	<65dB	<70dB	<75dB	<75dB
No-load loop current (1+1)		<4%						
No-load loop current (3+1)		<5%						
Current unbalace degree (1+1)		<4%						
Current unbalace degree (3+1)		<5%						
Insulation resistance		>2M(500VDC)						
Insulation strength		(input, output to PE)2820Vdc, leakage current lower than 3.5mA, no flashover in 1min						
Surge protection		Meet the requirement of IEC60664-class IV, the surge protection capacity from 1.2/50us+8/20us combination wave must higher than 6KV/3KA.						
IP degree		IP20						
Installation Connection way		Bottom cable connection						
Mechanical spec.	Dimension(WxDxH)	1210x860x1950mm				2440x990x2020mm		
	Packing Dimension(WxDxH)	1300x950x2150mm				2540x1090x2220mm		
	Gross weight(KG)	860	910	1100	1200	1900	2200	2500
ECO	Voltage range	±10%						
	Frequency range	± 3Hz						

Note: i) All specifications subject to change without notice
ii) Custom-made specifications are acceptable

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