

REL4700

160KVA~600KVA(3/3)

PF 0.9



REL4700 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 magnetic and reduces the number of semiconductors thus reducing servicing time and ownership costs. This UPS has high efficiency (>93%) and input power factor (>0.99) built-in 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).

Features

- Online double-conversion with DSP control
- IGBT rectifier and high input power factor (>0.99)
- High efficiency 93%
- Output power factor 0.9
- Low input distortion: THD<5%
- Generator compatible
- Output isolation transformer
- Inverter IGBT technology with high frequency communication
- High immunity to external disturbances
- Independent control on the three inverter phases
- High instantaneous overload capacity
- High MTBF(>200,000h)
- Capability of supplying distorted loads, containing output voltage distortion with crest factors
- Front access makes maintenance and replacement easily, save space
- Intelligent self diagnose function, all kinds of fault protection, large capability of history record storage
- Low MTTR(<0.5h)
- Standard emergency power off (EPO)
- Standard RS232/RS485/Dry contact communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 6 units

Specifications

MODEL	REL4700						
Capacity	160KVA 144KW	200KVA 180KW	250KVA 225KW	300KVA 270KW	400KVA 360KW	500KVA 450KW	600KVA 540KW
INPUT							
Rated Voltage	380V/400V/415VAC						
Voltage Range	346V–456V, Full load 304V–346V, Power derating 10%						
Rated Frequency	50/60Hz						
Frequency Range	50/60Hz ± 5Hz						
Power Factor	≥0.99						
Total Harmonic Distortion (THDi)	≤3%						
Bypass Voltage Range	± 20%						
ECO Voltage Range	± 10%						
OUTPUT							
Voltage	380V/400V/415VAC						
Voltage Regulation	± 1%						
Frequency	Synchronized with utility on AC mode; 50/60Hz ± 0.1% on battery mode						
Waveform	Pure sine wave						
Crest Factor	3:1						
Total Harmonic Distortion(THDV)	≤1%(Linear load); ≤5%(Non-linear load)						
Transfer Time	AC mode to battery mode :0ms Inverter model to bypass mode:0ms Inverter model to ECO mode:5–10ms						
Inverter Overload Capability	102%–110%:Transfer to bypass after 5mins; 110%–125%:Transfer to bypass after 1mins; 125%–150%:Transfer to bypass after 30s; 150%–200%:Transfer to bypass after 200 ms; >200%: power off after 100 ms						
Bypass Overload Capability	≤ 150%: Long time running 150%<load<200%: Power off after 1 min >200%:Power off after 100 ms						
BATTERY							
DC Voltage	600V(12Vx50pcs)						
Charger Current	16A	20A	25A	30A	40A	50A	60A
SYSTEM							
Efficiency	Working mode ≥93%,ECO mode ≥98%						
Alarm	Battery mode, Battery voltage low, Fans fault etc						
Surge Protection	IEC60664–1						
Insulation Resistance	>2MΩ(500VDC)						
Dielectric Strength	2820Vdc, No arc in 1min						
IP Class	IP20						
EMI	EN62040–2						
EMS	IEC61000–4–2(ESD) IEC61000–4–3(RS) IEC61000–4–4(EFT) IEC61000–4–5(Surge)						
ENVIRONMENT							
Humidity	0~95% RH @ 0~40°C(non-condensing)						
Noise Level	60dB	65dB			70dB	75dB	
MANAGEMENT							
Communication	RS232, RS485, Dry contact Supports Windows® 98/2000/2003/XP/Vista/2008/ Windows® 7/8						
Optional SNMP	Power management from SNMP manager and web browser						
PHYSICAL							
Dimension(mm) WxDxH	800x860 x1700	1210x860x1950			2380 x 860 x 1950		
Packing Dimension(mm) WxDxH	900x950 x1950	1300x950x2200			1300 x 950 x 2200(x 2)		
Net/Gross Weight(kg)	790/820	1135/1260	1355/1480		2090/2200	2300/2500	2690/2800

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