



# FR-31 SERIES

**10 - 50 kVA**

**On-Line**

**Low Frequency**

**3PH - 1PH**

FR-31 SERIES

10 - 50 kVA

## Main Features

- Full DSP Control with 2 DSP Controllers
- Battery Autonomy Calculator
- Advanced Monitoring System
- Wide Input Voltage Range
- Automatic Static Bypass
- Cold Start Function
- Auto Restart Function
- Full Automatic Protection
- Advanced Battery & Charger Management
- Manual Output Voltage Adjustment
- Split Bypass Input
- 12 Pulse Rectifier (Optional)
- High Performance
- Automatic Diagnostic
- Bus Fuse Detector
- Advanced Monitoring System
- Generator Compatible
- Advanced Parallel Technology (Optional)
- Battery Reverse Connection Protection
- Battery Open Loop Alarm
- Emergency Power Off Function (EPO)
- UPS Management Software
- Output Isolation Transformer
- StartUp Self Check
- Intelligent Battery Monitoring System (Optional)
- ECO Mode (Optional)

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## مشخصات فنی . Technical Specifications

MODEL		FR-3110 / L	FR-3115 / L	FR-3120	FR-3130	FR-3140	FR-3150	مدل
INPUT	Voltage (Vac)	380 ± 25%						دامنه ولتاژ
	Frequency (Hz)	50/60 ± 5%						دامنه فرکانس
	Phase	Three Phase : Four Wires + PE						تعداد فاز
OUTPUT	Power (kVA/kW)	10 / 7	15 / 10.5	20 / 16	30 / 24	40 / 32	50 / 40	توان
	Voltage (Vac)	220 ± 1%						دامنه ولتاژ
	Frequency (Hz)	50/60 ± 0.5% (Battery Mode)						دامنه فرکانس
	Wave Form	Pure Sine Wave , THD < 3% (Linear Load)						شکل موج
	Transfer Time	0						مدت زمان انتقال
	Overload	125% Load for 60 Seconds 150% Load for 1 Second		125% Load for 60 Seconds , 150% Load for 20 Seconds				اضافه بار
BATTERY	Voltage (Vdc)	192		348				ولتاژ
	Battery Type	32 × 7Ah12V/Ext	48 × 7Ah12V/Ext	External				نوع باتری
	Charger Current(A)Max	3 / 5		10 ~ 40 setting				حداکثر جریان شارژر
OTHERS	Communication Port	RS232/485 , Dry Contact (MODBUS and SNMP adapter are optional)						درگاه ارتباطی
	Display	LCD Displays Input Voltage, Output Voltage, Load Capacity, Battery Voltage, Etc. LED indicates running status						نمایشگر
	Alarm	Overload, Abnormal AC input, Low Battery						هشدارها
	Protection	Low Battery, Overload, Short-Circuit, Over Temperature, Output Low Voltage, Output Over Voltage						حفاظت ها
	Noise (dB)	< 60		< 65				نویز صوتی
	Temperature	0 ~ 40°C						دمای کارکرد
	Humidity	0 ~ 95 % ( No Condensation )						رطوبت محیط
	Dimension(W×D×H) mm	400 × 800 × 1180/ 350 × 780 × 720		400 × 800 × 1180				ابعاد(میلیمتر)
Weight (Kg)	250 / 130	320 / 160	205	230	270	300	وزن(کیلوگرم)	