



## True Online UPS Systems with In-built Isolation Transformer

### Technical Specifications (3KVA, 5KVA, 7.5KVA - 1Ø - 1Ø)

Models	RC1103	RC1105	RC1107
Ratings	3 KVA	5 KVA	7.5 KVA
Output Rating	2400 W	4000 W	6000 W
Nominal DC	96 - 192V DC	120 - 192V DC	168 - 192V DC
Topology	IGBT based DSP Control.		
Input Voltage	Single Phase 230V AC, 190 to 265V AC (For load <50% : 150 to 280V AC).		
Input Frequency	50 Hz, 47 to 53 Hz.		
Input PF	0.8.		
Output Voltage	230V AC $\pm$ 1%.		
Output Frequency	50 Hz $\pm$ 0.1% in Free running & $\pm$ 4% in Sync.		
Isolation Transformer	Provided Inbuilt.		
Crest Factor	3:1.		
Waveform	Sinusoidal.		
THD	<3% on linear load.		
Overload	110% for 10 minutes, 125% for 1 minutes, 150% for 5 seconds.		
Efficiency	>80%.		
Protections	Input & Output Over / Under Voltage. DC - High / Under Voltage, Battery Charging Over Current Output - Overload / Short Circuit / Over Temp.		
Audio Alarm	Mains Fail, Battery Low Pre-alarm, Inverter Trip.		
Metering	LCD Display for Input & Output Voltage, Current, Frequency, Battery Voltage & Current.		
Messages	Input - On / High / Low / Fail. Battery - Discharging / Low Trip, DC High. UPS - On / Off / Normal, Load on UPS / Static, Overload % & time. Output - Low / High / Overload / Fail / Short Ckt., Over Temp.		
Indications	Mains On / Fail, Battery On / Low, Inverter On / Trip.		
Controls	Start, Stop & Scroll.		
Enclosure	IP 20.		
Operating Temp.	0 to 40°C.		
Humidity	Upto 95% Rh (non-condensing).		
Cooling	Forced Air.		
Noise	<50 dB.		
Charging Current	2 to 10 Amp.		
Communication	RS232 (Optional).		
Monitoring Software	Provided for Windows XP platform (Optional).		
Static Switch	Provided with changeover <4 msec in sync.		
Dimensions (mm) (WxHxD)	300 x 450 x 530		350 x 710 x 650

## Technical Specifications (7.5KVA, 10KVA, 15KVA - 3Ø - 1Ø)

Models	RC3107	RC3110	RC3115
Ratings	7.5 KVA	10 KVA	15 KVA
Output Rating	6 KW	8 KW	12 KW
Nominal DC	192 / 240 / 360 V DC		240 / 360 V DC
Topology	IGBT based DSP Control.		
Input Voltage	415V AC, 335 to 475V AC.		
Input Frequency	50 Hz, 48 to 52 Hz.		
Input PF	>0.92.		
Output Voltage	230V AC $\pm$ 1%.		
Output Frequency	50 Hz $\pm$ 0.1% in Free running & $\pm$ 4% in Sync.		
Isolation Transformer	Provided at Output.		
Power Factor	0.8 Lag to Unity.		
Crest Factor	3:1.		
Waveform	Sinusoidal.		
THD	<3% on linear load.		
Overload	110% for 30 minutes, 125% for 10 minutes, 150% for 1 minute.		
Transient Response	For 0-50% & 50-100% load change voltage remains within $\pm$ 5%.		
DC Voltage Ripple	<2%.		
Inverter Efficiency	>85%.		
Protections	Input & Output Over / Under Voltage. DC - High / Under Voltage, Battery Charging Over Current. Output Overload / Short Circuit / Over Temp.		
Audio Alarm	Mains Fail, Battery Low Pre-alarm, Inverter Trip.		
Metering	LCD display to monitor Input & Output - Voltage, Current & Frequency; Battery - Voltage & Current.		
Messages	Input - On / High / Low / Fail. Boost Charging, Battery - Float / Discharging / Low Trip, DC High. UPS - On / Off / Normal, Load on - UPS / Static, Overload % & time. Output - Low / High / Overload / Fail / Short Circuit, Over Temp.		
Indications	Mains On / Fail, Battery On / Low, Inverter On / Trip.		
Switchgear	MCB / MCCB for Input, Battery & Output; Manual Bypass Switch.		
Termination	Input, Battery & Output.		
Enclosure	IP 20.		
Operating Temp.	0 to 40°C.		
Humidity	Upto 95% Rh (non-condensing).		
Cooling	Forced Air.		
Noise	<60 dB.		
Charging Current	2 to 10 Amps.		
Communication	RS 232 (Optional).		
Monitoring Software	UPS Monitoring Software on Windows XP Platform (Optional).		
Static Switch (Optional)	Provided with changeover <5 msec in sync <20msec in non-sync.		
Castor Wheels	Provided.		
Dimensions (mm) (WxHxD)	350 x 710 x 650		500 x 1050 x 700
Weight (Approx Kgs)	105	110	150.
Altitude	<1500m.		