Total Solution



Features

- RFI / EMI filtering
- Free contact relay
- Pure sine wave output
- IEC 62040-3 compliant
- GSM modem (optional)
- Power generator compatible
- Input power factor correction
- Remote LCD panels (optional)
- Heavy-duty and High MTBF design
- Fully digitized microprocessor controlled
- Hot-swappable battery, replaceable by user
- Inverter and rectifier short circuit protection
- Inverter powers and transformer overheat protection
- Mains connection to UPS output (inverter) protection
- Rectifier powers and transformer overheat protection
- Two-phase (400 V) connection to UPS input protection
- LAN support and remote managed via SNMP (optional)
- Battery over / under voltage and reverse polarity protection
- User friendly, informative LCD on front panel of the control unit
- Eight more programmable NO-NC free contact relays (optional)
- SCM (Spot Charging Management) and Advanced Battery Management
- Rectifiers and inverters parallel operation for load-sharing and redundancy
- Adjustable charge current, input voltage and frequency ranges by control unit

Total Solution UPS Package with more than 92% efficiency including double-conversion specifications, galvanic isolation at rectifier input, galvanic isolation at inverter output, 48 VDC bus with no booster, THDI less than 7% and input power factor of more than 0.98, separate modules for parallel redundant rectifier SR series and inverter SI series, that can easily be augmented or changed for more power and performance. These special features extend the useful life of the units and enable the customer to design and assemble MC series by-pass control unit, RU series racks and single- and three-phase UPS, based on the customer's requirements.



Applications

- Automation equipment
- Telecommunications
- Process machinery
- Industrial controls
- Broadcasting
- Data centers
- Banking

Rectifier technical data sheet

Construction			
Model	SR5-3000	Unit	
Current rating	100	А	
Dimensions W*D*H	100*480*222	mm	
	Rack-Mount		
	(5U 19" for 4 pcs)		
Weight (approx)	20	Kg	
Environmental			
Storage temperature	-20 to 70	°C	
Operating temperature	0 to 40	°C	
Altitude	<3000	m	
Relative humidity	0 to 95 Without	%	
	Condensation		
Degree of protection	20 (IEC 60529)	IP	
Normal mode	<50	dBA	
acoustic noise at 1 m			
Stored energy mode	<50	dBA	
acoustic noise at 1m			
Electrical UPS input characteristics			
Nominal AC voltage	220/230	VAC	
4 wires three modules	380/400	VAC	
3-phase AC voltage			
Voltage range	-30 to +20	%	
THDI	<7	%	
Power factor	>.98		
Soft start	10	Sec	
Nominal frequency	50	Hz	
Electrical output characteristics			
Nominal DC voltage	48	VDC	
Nominal DC current	100	ADC	
Overload capability	150 @ 6 sec, 125 @ 10 min	%	
Parallel Operation			
Parallel quantity and	No Limit		
sharing and redundancy			
Overload	AC to DC galvanic Isolation		
AC over voltage	Rectifier powers and transformer overheat protection		
AU under voltage			
Output snort circuit			
Battery reverse polarity			

Inverter technical data sheet

Construction			
Model	SI 5-1500	Unit	
Power rating (W/VA)	1200/1500	W/VA	
Dimensions W*D*H	100*480*222	mm	
	Rack-Mount		
	(5U 19" for 4 pcs)		
Weight (approx)	20	Kg	
Environmental			
Storage temperature	-20 to 70	°C	
Operating temperature	0 to 40	°C	
Altitude	<3000	m	
Relative humidity	0 to 95 Without condensation	%	
Degree of protection	20 (IEC 60529)	IP	
Normal mode	<50	dBA	
acoustic noise at 1 m			
Stored energy mode	<50	dBA	
acoustic noise at 1m			
Electrical input characteristics			
Nominal DC voltage	48	VDC	
Voltage range	40 to 60	VDC	
Electrical output characteristics			
Nominal AC voltage	220/230	V r.m.s.	
Voltage variation	$< \pm 0.5$ (Free running)	%	
	$< \pm 5$ (Grid Mode)		
Nominal frequency	50	Hz	
Frequency variation	50 \pm 0.01 (Free running)	Hz	
	Be synchronous with input in		
	the mains mode		
Linear load total	<3%	%THD	
voltage distortion			
Non-Linear load total	<5%	%THD	
voltage distortion			
waveform	Sinusoidal		
overload capability	200 @Starting, 125 @10 min	%	
Parallel Operation		1	
Parallel quantity and	No Limit		
availability for load sharing			
and redundancy			
Protection			
Overload	Output short circuit		
DC over voltage	Inverter powers and transformer overheat protection		
DC under voltage	DC to AC galvanic Isolation		
Battery reverse polarity			
Mains connection to output			