

SOLLATEK AUTOMATIC VOLTAGE REGULATOR (AVR)

Three phase telecom static AVR with isolating transformer

Model:

AVR3x44-22-TI Three phase: 30kVA

Features:

Designed for telecom applications. Designed for remote operation where a high degree of reliability is essential. Input delta/star isolating transformer. Weather-proof enclosure.

Fully electronic with no moving parts for:

- High reliability
- Speed of operation
- Immunity to dust and other environmental conditions

The AVR is specified and used by a number of large organisations including:

- Satellite operators
- Infrastructure telecom companies
- Embassies worldwide for reliable electrification of their posts
- Medical systems for digital imaging, scanning and x-ray equipment
- Mobile phone operators
- Grid utility companies for voltage regulation to their sub-stations
- Various United Nations divisions including WHO, UNICEF and WFP

Equipped with:

- Automatic bypass switch transferring the load to the utility grid.
- Low and high voltage protection
- Radio frequency interference filtering, surge and lightning protection

Special features include:

- Wide input frequency tolerance between 45 to 75 Hz allowing unit to function correctly in areas of severe voltage disturbances
- High overload capability with up to 150% for 4 minutes
- Very low losses and minimal heat dissipation due to high efficiency design
- Warranty of 2 years. Sollatek provides full back up support on all its products,
- with local support in over twenty countries worldwide



AVR 3x44-22-TI

LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR:>98%. Isolation transformer: >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.		
Maximum Input Current 3x67 amps (at 100% load and maximum boost). Frequency Range 43Hz to 75Hz (as 50Hz - 10%, +30%, or 60Hz - 25%, +25%). Additional Voltage THD Can withstand > 10% THD from the supply. Output Output Voltage THD Output Uoutput Power 30 kVA. Correction time 20 m sec (0 to 100% load). Additional Voltage THD <0.25% at nutput (tested at 100% linear load), (No PWM methods used). Crest Factor > 1:3 permissible on load current (tested at 100% load). Synchronization Output synchronized to input. Permissible Overload 100% for 100ms, 110% for 10 minutes. 105% for 4 minutes, 110% for 10 minutes. 105% for 10 minutes. 105% for 7 minutes, compressors, industrial machines, medical equipment, office equipm SMPS, air conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Detta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wis screen earthed at input. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five stat LED indicators. Protects load from extreme supply voltage and AVR madfurction. Voltage Protection Jusai Indicators and undrer cortacts		230/400V30%. +22%
Frequency Range 45Hz to 75Hz (i.e 50Hz - 10%, +50%, or 60Hz - 25%, +25%). Additional Voltage THD -0.2% at input tested at 100% linear load), (No PWM methods used). Maximum Dupt THD Can withstand > 10% THD from the supply. Output Output Voltage 230/400V, +/- 4%. Maximum Output Cerner 3 k4 Amps. Maximum Output Oremet 30 kVA. Correction time 20 m sec (0 to 100% load). Additional Voltage TD -0.25% at output (tested at 100% linear load), (No PWM methods used). Crest Factor > 1:3 permissible on load current (tested at 100% load). Synchronization Output synchronized to input. Permissible Overload 1000% for 4 minutes, 110% for 10 minutes. Load Types Designed to run lighting. motors, battery chargers, communications equipment, office equip SMFs, air-conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wis screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indic	1 5	
Additional Voltage THD <0.2% at input (tested at 100% linear load), (No PWM methods used).	1	
Maximum Input THD Can withstand > 10% THD from the supply. Output Output voltage 230/400V, +/- 4%. Maximum Output Current 3 x 44 amps. Maximum Output Power 30 kVA. Correction time 20 m sec (0 to 100% load). Additional Voltage THD <0.25% at output (tested at 100% linear load). (No PWM methods used).	. , 3	
Output Output Output voltage 230/400V, +/- 4%6. Maximum Output Current 3 x 44 amps. Maximum Output Power 30 kVA. Correction time 20 m sec (0 to 100% load). Additional Voltage THD c0.25% at output (tested at 100% linear load), (No PWM methods used). Crest Factor > 1:3 permissible on load current (tested at 100% load). Synchronization Output synchronized to input. Permissible Overload 1000% for 10 minutes. 100% for 10 minutes. 100% for 10 minutes. Load Types Designed to run lighting, motors, battery chargers, communications equipment, office equipn SMPS, air- conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wis screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any	5	
Output voltage 230/400/, +/- 4%. Maximum Output Current 3 x 44 amps. Maximum Output Current 30 kVA. Correction time 20 m sec (0 to 100% load). Additional Voltage THD <0.25% at output (fested at 100% linear load), (No PWM methods used).	•	
Maximum Output Power 30 kVA. Correction time 20 m sec (0 to 100% load). Additional Voltage THD <0.25% at output (tested at 100% linear load), (No PWM methods used).		230/400V, +/- 4%.
Correction time 20 m sec (0 to 100% load). Additional Voltage THD <0.25% at output (tested at 100% linear load), (No PWM methods used).	Maximum Output Current	3 x 44 amps.
Additional Voltage THD <0.25% at output (tested at 100% linear load), (No PWM methods used).	Maximum Output Power	30 kVA.
Crest Factor > 1: 3 permissible on load current (tested at 100% load). Synchronization Output synchronized to input. Permissible Overload 1000% for 100ms, 150% for 4 minutes, 110% for 10 minutes, 110% for 10 minutes, 110% for 10 minutes. Load Types Designed to run lighting, motors, battery chargers, communications equipment, office equipm SMPS, air- conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wire screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five stat LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pas Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR- S98%. Isolation transformer. >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.	Correction time	20 m sec (0 to 100% load).
Crest Factor > 1: 3 permissible on load current (tested at 100% load). Synchronization Output synchronized to input. Permissible Overload 1000% for 100ms, 150% for 4 minutes, 110% for 10 minutes, 110% for 10 minutes, 110% for 10 minutes. Load Types Designed to run lighting, motors, battery chargers, communications equipment, office equipn SMPS, air- conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wire screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five state ED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pas Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR: >98%. Isolation transformer. >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.	Additional Voltage THD	<0.25% at output (tested at 100% linear load), (No PWM methods used).
Synchronization Output synchronized to input. Permissible Overload 1000% for 100ms, 150% for 4 minutes, 110% for 10 minutes, 110% for 10 minutes. Load Types Designed to run lighting, motors, battery chargers, communications equipment, office equipment for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wi screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators protect against disturbances and false diagnostic indicators. Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Control Internal surge arrestors and filters in control circuit protect against extreme surges and lightning o supply. Class II protection, 20KY, 1.2/S0Us, 45KA max surge current. Response time <20ns. With status indicators. Power Connections Supply phases and earth. Load phases, neutral and earth.	5	•
150% for 4 minutes. Load Types Designed to run lighting, motors, battery chargers, communications equipment, office equipm SMPS, air- conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wi screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR:>98%. Isolation transformer:>97% average,>95% worst case Control Mitroentroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Power Connections Supply phases and earth. Load phase, neutral and earth. Surge Protection Heavy duty input and output surge arrestors to protect against disturbances. Filtering algor and fault tolerant software protex op prote	Synchronization	
110% for 10 minutes. Load Types Designed to run lighting, motors, battery chargers, communications equipment, office equipm SMPS, air - conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wis screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five stat LED indicators. Protects load from extreme supply voltage and AVR malfunction. By-Pass Automatic oby-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR:>98%. Isolation transformer:>97% average,>95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Power Connections Supply phases and earth. Load phases, neutral and earth. Surge Protection Heavy duty input and output surge arrestors to protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements. Power Connections Supply phases and earth. Load phases, neutral		1000% for 100ms,
Load Types Designed to run lighting, motors, battery chargers, communications equipment, office equipm SMP5, air- conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wi screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR: >98%. Isolation transformer: >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Power Connections Supply phases and earth. Load phases, neutral and earth. Surge Protection Hneral surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and filges measurements. <tr< td=""><td></td><td></td></tr<>		
SMP5, air-conditioners, compressors, industrial machines, medical equipment and others. Suit for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wire screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five state LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR: >98%. Isolation transformer: >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Power Connections Supply phases and earth. Load phases, neutral and earth. Surge Protection Heavy duty input and output surge arrestors to protect against extreme surges and lightning o supply. Class II protection, 20KV, 1.2/Sous, 45KA max surge current. Response time <20ns. With status indicators.		
for all domestic, commercial and industrial sites. General Isolation Transformer Connected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wi screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicators and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR. >88%. Isolation transformer: >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Power Connections Supply phases and earth. Load phases, neutral and earth. Surge Protection Heray duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators. Power Connections Suppl phases and earth. Load phases, neutral and earth.	Load Types	
Isolation TransformerConnected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wi screen earthed at input.Circuit BreakersInput and output circuit breakers to protect against overload and short circuit to both the AVR the load.Voltage ProtectionAVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction.Output AlarmVisual indicator and volt-free contacts if AVR output fails for any reason.By-PassAutomatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase.TechnologyAll solid state (static) switching.EfficiencyAVR: >98%. Isolation transformer: >97% average, >95% worst caseControlMicrocontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning o supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Ambient Temperature Range> 50%, non condensing.Environmental ProtectionIP44.Acoustic Noise< 45 dB (A).		
Isolation TransformerConnected at input. Delta primary plus earth, 4 wire. Star secondary plus earth, 5 wire. Inter-wi screen earthed at input.Circuit BreakersInput and output circuit breakers to protect against overload and short circuit to both the AVR the load.Voltage ProtectionAVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction.Output AlarmVisual indicator and volt-free contacts if AVR output fails for any reason.By-PassAutomatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase.TechnologyAll solid state (static) switching.EfficiencyAVR: >98%. Isolation transformer: >97% average, >95% worst caseControlMicrocontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning o supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit. Ambient Temperature Range -5 to +50°C.Relative Humidity>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise<45 dB (A).	General	
screen earthed at input. Circuit Breakers Input and output circuit breakers to protect against overload and short circuit to both the AVR the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five state LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR: >98%. Isolation transformer: >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Control Protection Internal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements. Power Connections Supply phases and earth. Load phases, neutral and earth. Surge Protection Heavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.		
the load.Voltage ProtectionAVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five sta LED indicators. Protects load from extreme supply voltage and AVR malfunction.Output AlarmVisual indicator and volt-free contacts if AVR output fails for any reason.By-PassAutomatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase.TechnologyAll solid state (static) switching.EfficiencyAVR:>98%. Isolation transformer: >97% average, >95% worst caseControlMicrocontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning o supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Ambient Temperature Range-5 to +50°C.Relative Humidity>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise< 45 dB (A).	Isolation Transformer	
the load. Voltage Protection AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five states LED indicators. Protects load from extreme supply voltage and AVR malfunction. Output Alarm Visual indicator and volt-free contacts if AVR output fails for any reason. By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR: >98%. Isolation transformer: >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Power Connection Internal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements. Power Connections Supply phases and earth. Load phases, neutral and earth. Surge Protection Heavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.	Circuit Breakers	Input and output circuit breakers to protect against overload and short circuit to both the AVR an
LED indicators. Protects load from extreme supply voltage and AVR malfunction.Output AlarmVisual indicator and volt-free contacts if AVR output fails for any reason.By-PassAutomatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase.TechnologyAll solid state (static) switching.EfficiencyAVR: >98%. Isolation transformer: >97% average, >95% worst caseControlMicrocontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.Control ProtectionInternal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning o supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Arbiter Humidity>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise< 45 dB (A).	Circuit breakers	
By-Pass Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service any reason. Status indicators for each phase. Technology All solid state (static) switching. Efficiency AVR: >98%. Isolation transformer: >97% average, >95% worst case Control Microcontroller based control system provides self checks, system integrity monitoring and diagnostic indicators. Control Protection Internal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements. Power Connections Supply phases and earth. Load phases, neutral and earth. Surge Protection Heavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.	Voltage Protection	AVS Automatic over and under voltage protection and adjustable re-connect delay, c/w five statu LED indicators. Protects load from extreme supply voltage and AVR malfunction.
any reason. Štatus indicators for each phase.TechnologyAll solid state (static) switching.EfficiencyAVR: >98%. Isolation transformer: >97% average, >95% worst caseControlMicrocontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.Control ProtectionInternal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Ambient Temperature Range Environmental Protection>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise<45 dB (A).	Output Alarm	Visual indicator and volt-free contacts if AVR output fails for any reason.
EfficiencyAVR: >98%. Isolation transformer: >97% average, >95% worst caseControlMicrocontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.Control ProtectionInternal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning c supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Ambient Temperature Range-5 to +50°C.Relative Humidity>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise< 45 dB (A).	By-Pass	Automatic by-pass to run load direct from utility power if AVR needs to be taken out of service for any reason. Status indicators for each phase.
ControlMicrocontroller based control system provides self checks, system integrity monitoring and diagnostic indicators.Control ProtectionInternal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Ambient Temperature Range-5 to +50°C.Relative Humidity>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise< 45 dB (A).	Technology	All solid state (static) switching.
diagnostic indicators.Control ProtectionInternal surge arrestors and filters in control circuit protect against disturbances. Filtering algor and fault tolerant software protect against disturbances and false measurements.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Ambient Temperature Range-5 to +50°C.Relative Humidity>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise< 45 dB (A).	Efficiency	AVR: >98%. Isolation transformer: >97% average, >95% worst case
and fault tolerant software protect against disturbances and false measurements.Power ConnectionsSupply phases and earth. Load phases, neutral and earth.Surge ProtectionHeavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.RFI/EMI FilterAVR is equipped with RFI/EMI filtering for proper operation of the unit.Ambient Temperature Range-5 to +50°C.Relative Humidity>95%, non condensing.Environmental ProtectionIP44.Acoustic Noise< 45 dB (A).	Control	
Surge Protection Heavy duty input and output surge arrestors to protect against extreme surges and lightning or supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators.	Control Protection	Internal surge arrestors and filters in control circuit protect against disturbances. Filtering algorith and fault tolerant software protect against disturbances and false measurements.
supply. Class Iİ protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns. With status indicators. RFI/EMI Filter AVR is equipped with RFI/EMI filtering for proper operation of the unit. Ambient Temperature Range -5 to +50°C. Relative Humidity >95%, non condensing. Environmental Protection IP44. Acoustic Noise < 45 dB (A).	Power Connections	
RFI/EMI Filter AVR is equipped with RFI/EMI filtering for proper operation of the unit. Ambient Temperature Range -5 to +50°C. Relative Humidity >95%, non condensing. Environmental Protection IP44. Acoustic Noise < 45 dB (A).	Surge Protection	supply. Class II protection, 20kV, 1.2/50us, 45kA max surge current. Response time <20ns.
Relative Humidity >95%, non condensing. Environmental Protection IP44. Acoustic Noise < 45 dB (A).	RFI/EMI Filter	
Environmental Protection IP44. Acoustic Noise < 45 dB (A).	Ambient Temperature Range	-5 to +50°C.
Acoustic Noise < 45 dB (A).	Relative Humidity	>95%, non condensing.
Expected Service Life > 25 years. Standards Manufactured to comply with :- ISO9001:2000, CE, EN 50081-1:1992, EN 50082-1:1998, EN 55022:1998, EN 61000-4-2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995,	Environmental Protection	IP44.
Standards Manufactured to comply with :- ISO9001:2000, CE, EN 50081-1:1992, EN 50082-1:1998, EN 55022:1998, EN 61000-4-2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995,	Acoustic Noise	< 45 dB (A).
Standards Manufactured to comply with :- ISO9001:2000, CE, EN 50081-1:1992, EN 50082-1:1998, EN 55022:1998, EN 61000-4-2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995,	Expected Service Life	
	•	Manufactured to comply with :- ISO9001:2000, CE, EN 50081-1:1992, EN 50082-1:1998, EN 55022:1998, EN 61000-4-2:1995/1998, EN 61000-4-3:1996, EN 61000-4-4:1995,
Dimensions 1200 x 750 x 1600 (W x D x H) mm.	Dimensions	1200 x 750 x 1600 (W x D x H) mm.

Sollatek (UK) Limited, Unit 10, Poyle 14 Industrial Estate, Newlands Drive, Poyle, Slough SL3 0DX. United Kingdom. Tel : +44 1753 688 300 Fax : +44 1753 685 306 email : sales@sollatek.com www.sollatek.com