



APSD SERIES - 1 PHASE

RECTIFIER

1 phase

GENERAL SPECIFICATIONS

- Input isolation transformer
- Fully controlled conventional rectifier
- Smart control and high reliability with DSP (Digital Signal Processor)
- Float charge, equalising charge and boost charge modes
- Automatic and manual charge modes
- Low output voltage ripple
- 2x16 character LCD display, showing measurements, status and alarm messages
- Soft start
- Led displays for easy observation of rectifier status
- Audible alarm
- Programmable current limitation
- Operation as voltage and current source
- Calibration of measurements from front panel
- Language selectable from front panel
- DC Low / High, Line Failure, Over Temperature, Short Circuit protections
- Ability to program all operation parameters (Password protected)
- Programmable alarm relay contact outputs (4 standard, up to 16 relays as option)
- Standard RS232 (Optional RS485)
- Modbus communication
- Log records with date and time stamp up to 200 events.
- 24V / 48V / 110V / 125V / 220V output options

OPTIONS

- Battery temperature compensation
- Ability to monitor batteries and battery low alarm, even when the AC input fails
- Active parallel (current sharing) operation up to 4 devices
- Easy observation via analog gauges
- Battery test with adjustable voltage and duration
- Transducers for input / output voltage(s) / current(s) (4-20mA and 0-10V)
- 12 pulse option to limit input current distortion
- Earth leakage monitoring
- Input Power / kVA / kW measurement
- Internal cabinet light / anti-condensation heater
- Touch screen





TECHNICAL SPECIFICATIONS

MODEL	1 PHASE INPUT
INPUT	
Nominal voltage	110VAC / 127VAC / 208VAC / 220VAC / 230VAC / 240VAC
Input voltage tolerance	± 15%
Nominal frequency	50Hz / 60Hz
Transformer	Galvanically isolated
THDi	< 45-50% Standard
Input protection	Thermal Magnetic Overcurrent protection MCB, Overvoltage protection
OUTPUT	
Output voltage	24 VDC / 48 VDC / 110 VDC / 220 VDC
Output voltage adjustment	100% - 120% of Nominal Output Voltage
Output current adjustment	10% - 100% of Nominal Output Current
Battery charging current adjustment	10% - 100 % of Nominal Output Current
Boost charger voltage	100% - 120% of Floating Output Current
Boost voltage(V/C)	2.4 Lead Acid Battery 1.60 NiCd Battery
Float voltage(V/C)	2.23 Lead Acid Battery 1.40 NiCd Battery
Nominal output current	10A to 10000A
Maximum output current	100 % of Nominal Output Current
Filtering	L-C Filtre
GENERAL PROPERTIES	
Boost timer	0-600 hours adjustable
Cooling	Fan forced cooling (Standard), Natural cooling (Optional)
Isolation voltage	1500 or 3000VAC input/chassis and output/chassis
Efficiency at full load	> 80%
Protection level	IP20 (Standard); IP21 - IP54 (Optional), (Contact us for IP54 to IP65)
Cable entry	Front bottom (Top entry, optional)
Access to batteries	Batteries and rectifier in the same cabinet with front access (Optional)
Circuit breakers	Thermal-magnetic circuit breakers for input, output and battery
Reset button	Auto start
Measurements	Load output voltage and current / Batt.. output voltage and current / Utility voltage / Line voltage / Frequency / Power factor (Optional) / Batt. ambient temperature (Optional)
ENVIRONMENT	
Acoustic noise	45 - 55 dB (according to power rating)
Storage temperature	(-20°C) - (+70°C)
Operating temperature	(-5°C) - (+50°C)
Humidity	0 - 95% Non-condensing
Altitude	1000m (-1% Power for every 100m after 1000m) Max. 4000m
Colour	RAL7035, RAL7032 (Standard), others (Optional)
COMMUNICATION & PARALLELING	
Communication	RS232 (Standard), Dry Contacts (Standard), RS485 (Optional), Modbus TCP (Optional), SNMP (Optional), GSM (Optional)
Paralleling	Parallel Redundant (No need for extra connectivity for paralleling)
STANDARDS	
Standards	IEC62040-1, IEC62040-2, ISO9001, ISO14001