

600S / 1200S Series

600-1200 WATTS SINGLE OUTPUT AC/DC INDUSTRIAL

Features

- Industrial grade
- High reliability
- Built-in RFI filter
- Low ripple and noise
- Suitable for N+1 redundancy
- Remote programming
- Bench or rack mounted



Specifications

INPUT

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| Voltage | 99–132VAC/198–264VAC, 230–340VDC. |
| Frequency | 50Hz–60Hz. |
| Input current (rms) | 198–264VAC 50Hz–60Hz; 600S: 4.1A rms Fuse 6.3A T; 1200S: 8.2A rms Fuse 12.5A T |
| Power factor | 0.72–0.76 at 230VAC full load. |
| Efficiency | 88%–90%. |
| Insulation | Input – Output 3750V rms; Input – Case 2500V rms; Output – Case 500VDC. |

OUTPUT

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| Voltage | See table. |
| Voltage adjustment | See table. |
| Output current | See table. |
| Current limit | From 30–18V or 60–36V the current limit follows a constant power curve below 18/36V it resembles a constant current curve. |
| Load regulation | (0%–100%) 10mV max. |
| Recovery time | 0.3mS to within 100mV after a 50%–100% load step. Max. deviation 300mV. |
| Line regulation | (200–264VAC) 5mV max. |
| Stability | 3.10-4 during 8 hours after 1 hour warm up constant conditions |
| Ripple & noise | Max. 7mV rms, 20mV pk-pk |
| Temperature coefficient | 5x10 ⁻⁵ per °C |
| Holdup time | 30mS @ 230VAC and full load. |
| Overload protection | Continuous overload and short circuit protected |
| OVP protection | Set to trip at 31V on 30V units and 62V on 60V units |
| Remote sense | Yes max. sense range 3V per lead. For parallel/redundancy operation remote sense is not recommended |
| Series operation | Up to 500V max. |
| Parallel operation | Unlimited. However 1200S model requires the current limit switch to put to "LO" max. 1100W per unit |
| Redundant operation | The +R connection via the built-in diode can be used, which isolates the output. Set current limit switch to "LO" on 1200S model |

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| Alarm circuit | A reed delay with changeover contacts is activated when V out drops below 10% of set voltage. Relay rating 30V/100mA |
| Remote control | Voltage control with external 10kΩ potentiometer (optional) |
| Remote programming | By analog voltage 2–5V programming speed 100mS. |

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| LED Indicators | Green LEDs on the front panel. |
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ENVIRONMENTAL

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| Operating temperature | 600S: -20°C to 60°C. 1200S: -20°C to 50°C mounted vertically. |
| Derating | Derate to 20% at 75°C. |
| Cooling | Convection cooled – consult sales office for derating curves above 50°C. |
| Storage temperature | -40°C to +85°C. |

STANDARDS

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|-------------------|----------------------------------|
| Safety standards | EN60950, EN61010 |
| C-Tick | AS/NZS CISPR11 Group 1 Class A. |
| EMC/EMI standards | EN61000-6-2, EN61204-3, EN55022B |

MECHANICALS

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| Dimensions | (WxDxH) 600S/1200S: – 433x385x88mm, various mounting kits available for wall mount or 19 inch rack mounted. |
| Weight | 600S: 10.5kg; 1200S: 11kg. |
| Connection | Input Screw terminal output threaded stud terminals |

Selection Table

| MODEL NUMBER MAX POWER | OUTPUT VOLTAGE | OUTPUT CURRENT | RIPPLE & NOISE |
|------------------------------|------------------------|--|-------------------------------|
| 600S24 600W | 12-30V (Adjustable) | 20A @ 30V 25A @ 24V 30A @ 12-15V | 20mVp-p 20mVp-p 20mVp-p |
| 1200S24 1200W | 12-30V (Adjustable) | 40A @ 30V 50A @ 24V 60A @ 12-15V | 20mVp-p 20mVp-p 20mVp-p |
| 1200S48 1200W | 24-60V (Adjustable) | 20A @ 60V 25A @ 48V 30A @ 24-30V | 20mVp-p 20mVp-p 20mVp-p |