



**Green Power Products**  
INNOVATION & PRECISION

Visit our website » [greenpowerproducts.com](http://greenpowerproducts.com)

- \* 7" Touch Screen Color Panel Control
- \* Precision Digital Control
- \* Plastic Enclosure
- \* High Efficiency
- \* Dual Pulse

## USA-GPP GP21P – SWITCH MODE PULSE RECTIFIER

- High efficiency
- Better current distribution
- Reduced metals and additive consumption
- Finer grain structure, lower stress and greater ductility
- Enhanced brightness
- Improved corrosion resistance
- Faster plating speeds
- Output current available from 10 to 100,000 Amps



**Made in the USA**

- Control Modes:
- Constant current or
  - Constant voltage with bus bars cables drop compensation
  - Wireless remote color Touch Screen control panel (optional)
- Operation Modes:
- On/Off manual operation
  - 10 independent programmable timers
  - 10 independent Amp X min or Amp X hour counters + 1 total
  - 10 independent recipes (for decorative chromium applications)
  - Thickness operation (10 independent programs)
- Automation:
- Process control (5 Amp X min or Amp X hour independent programs)
  - 3 independent dosing pumps control
  - 4 input x 4 output integrated PLC
- Pulse Adjustment:
- T On = from 5uS to 32,750uS (1uS resolution).
  - T Off = from 5uS to 32,750uS (1uS resolution).
  - Train Pulse adjust from 0.1 a 3,276 Sec.
  - Direct Current capability
  - Automatic pulse adjust (single pulse only)
- Dual Pulse:
- Dual Pulse capability + Pulse Train
- Pulse Reverse:
- Reverse Pulse capability connecting 2 pulse rectifiers (sync mode)
- Protection:
- Line fault and output overload electronic protection
  - over temperature alarm
  - Thermal magnetic trip circuit breaker
  - Isolation fault
- Construction:
- 0.95 power factor (low energy consumption)
  - Low noise high frequency switch mode converter
  - Corrosion proof plastic enclosure
  - 7" Color Touch Screen control panels
  - Easy replace power modules
  - Water cooled (rinse water before use)
  - Reliable low maintenance rugged construction
  - Hundreds units operating for more than 10 years without any maintenance



Remote Control Panel



## Standard Switch Mode Pulse Rectifiers - 12V output

MODEL	Average Current (A)	Peak Current (A)	Water Cooling	Dimensions H x W x D (in)	Weight (Lb)
GP21P-010/12	10	20	Air – Conv.	14 x 12 x 6	50
GP21P-050/12	50	100	Air – Conv.	18 x 16 x 10	60
GP21P-100/12	100	200	Forced Air	18 x 16 x 10	60
GP21P-200/12	200	400	Forced Air.	18 x 16 x 10	70
GP21P-300/12	300	600	1 liter/min	18 x 16 x 10	90
GP21P-500/12	500	1000	1.5 liter/min	18 x 16 x 10	100
GP21P-1000/12	1000	2000	3 liters/min	24 x 20 x 12	150
GP21P-2000/12	2000	4000	6 liters/min	30 x 24 x 10	180
GP21P-3000/12	3000	6000	9 liters/min	30 x 24 x 10	190
GP21P-4000/12	4000	8000	12 liters/min	40 x 32 x 12	200
GP21P-5000/12	5000	10000	15 liters/min	48 x 36 x 16	360

3 phase 240V or 380/440V/480V, 50/60Hz AC line. Models from 10 to 200Amps 110V or 240V-60Hz single phase

## Standard Switch Mode Pulse Rectifiers - 24V output

MODEL	Average Current (A)	Peak Current (A)	Water Cooling	Dimensions H x W x D (in)	Weight (Lb)
GP21P-020/24	20	40	Air – Conv.	18 x 16 x 10	60
GP21P-050/24	50	100	Forced Air	18 x 16 x 10	60
GP21P-100/24	100	200	Forced Air	18 x 16 x 10	70
GP21P-300/24	300	600	1 liter/min	18 x 16 x 10	100
GP21P-500/24	500	1000	1.5 liter/min	18 x 16 x 10	150
GP21P-1000/24	1000	2000	3 liters/min	24 x 20 x 12	160
GP21P-2000/24	2000	4000	6 liters/min	30 x 24 x 10	190
GP21P-3000/24	3000	6000	8 liters/min	40 x 32 x 12	200
GP21P-4000/24	4000	8000	12 liters/min	40 x 32 x 12	220
GP21P-5000/24	5000	10000	15 liters/min	48 x 36 x 16	400

3 phase 240V or 380/440V/480V, 50/60Hz AC line. Models from 20 to 100Amps 110 or 220V-60Hz single phase  
Anodizing applications

## Standard Switch Mode DC Rectifiers - 12V or 24V output

MODEL	Current (A)	Water Cooling	Dimensions A x L x P (mm)	Weight (Lb)
GP21C-300/12	300	1 liter/min	18 x 16 x 10	110
GP21C-500/12	500	1.5 liter/min	18 x 16 x 10	110
GP21C-1000/12	1000	3 liters/min	18 x 16 x 10	140
GP21C-2000/12	2000	6 liters/min	30 x 24 x 10	160
GP21C-3000/12	3000	9 liters/min	30 x 24 x 10	180
GP21C-4000/12	4000	12 liters/min	40 x 32 x 12	200
GP21C-5000/12	5000	15 liters/min	40 x 32 x 12	320

2019 Subject to change without notice



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