



Features :

- . Universal AC input / Full range
- . PFC >0.95 at 230 VAC
- . CH4 isolated output, can be selected +/- output polarity (option)
- . CH1&2 can be adjusted -5~+10%
- . Short circuit, over voltage, over load, over temp. protected
- . Built-in remote sense for CH1&2
- . Forced air cooling by built-in DC fan
- . Approvals : UL / CUL / TUV / CB / CE
- . 100% full load burn-in test

3 years warranty



Model	QP-200D				QP-200F				QP-2003B			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC output voltage	5V	12V	24V	-12V	5V	15V	24V	-15V	5V	3.3V	12V	-12V
Output voltage tolerance	±3%	±3%	±8%	±3%	±3%	±3%	±8%	±3%	±3%	±3%	±8%	±3%
Output rated current	15A	4A	3A	0.7A	15A	3A	3A	0.7A	15A	15A	6A	0.7A
Output current range	3~20	0~6	0.4~5	0~1	3~20	0~5	0.4~5	0~1	3~20	0~20	0.5~8	0~1
Peak current	20A	7A	6A	1A	20A	6A	6A	1A	20A	20A	8A	1A
Ripple & noise	150mV	150mV	150mV	150mV	150mV	150mV	150mV	150mV	150mV	150mV	150mV	150mV
Line regulation	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%
Load regulation	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%
DC output power	203.4W				202.5W				204.9W			
Efficiency	75%				75%				72%			
DC voltage adjustment	CH1,2 : -5%~+10%											
Input voltage range	90~264VAC / ; 47~63Hz ; 120~370 VDC											
AC current	3.5A / 115 V ; 2A / 230 V											
Inrush current	Cold start 40A											
Leakage current	<2mA/240VAC											
Over-load protection	105~135% Reset : auto-recovery											
Over-voltage protection	CH1 : 5.75~6.75V CH2 : 13.8~16.2V				CH1 : 5.75~6.75V CH2 : 17.25~20.25V				CH1 : 5.75~6.75V CH2 : 3.6~4.3V			
Over temperature protection	95°C ±5°C (TSW1) Type : shutdown Reset : auto recovery											
Temperature coefficient	±0.03% /°C (0°~50°C)											
Set-up, Rise, Hold-up time	800ms, 50ms, 16ms											
Power factor	PF>0.95/230VAC ; PF>0.98/115VAC											
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. Each axes											
Withstand voltage	I/P-O/P: 3KVACVAC I/P-FG: 1.5 KVAC ; O/P-FG : 0.5 KVAC											
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG : 500 VDC /100MΩ											
Working temp. & humidity	-10°C~+60°C (refer to output derating curve) 20~90% R.H.											
Storage temp. & humidity	-20°C~+85°C, 10%~95% R.H. (non-condensing)											
Dimensions	230 x 115 x 50 mm (Length x Width x Height) case 912											
Weight	1.1 Kg											
Safety standards	UL1950, TUV EN60950 approved											
EMC standards	CISPR22 (EN55022) Class B, EN50082, EN55024											

Notes:

- All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient.
- Tolerance include setup tolerance, line regulation, load regulation.
- Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF capacitor.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 0% to 100% rated load
- Refer to output derating curve vs input voltage



Model	QP-2003C				QP-2003D				QP-2003E			
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC output voltage	5V	3.3V	15V	-15V	5V	3.3V	24V	12V	5V	3.3V	24V	15V
Output voltage tolerance	±3%	±3%	±8%	±3%	±3%	±3%	±8%	±3%	±3%	±3%	±8%	±3%
Output rated current	15A	15A	5A	0.7A	10A	15A	4A	0.7A	10A	15A	4A	0.7A
Output current range	3~20	0~20	0.5~6	0~1	3~15	0~20	0.4~5	0~1	3~15	0~20	0.4~5	0~1
Peak current	20A	20A	7A	1A	20A	20A	6A	1A	20A	20A	6A	1A
Ripple & noise	100mV	100mV	150mV	150mV	100mV	100mV	150mV	150mV	100mV	100mV	150mV	150mV
Line regulation	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%	±1%	±1%	±2%	±1%
Load regulation	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%	±2%	±2%	±6%	±2%
DC output power	210W				203.9W				206W			
Efficiency	72%				74%				74%			
DC voltage adjustment	CH1,2 : -5%~+10%											
Input voltage range	90~264VAC / ; 47~63Hz ; 120~370 VDC											
AC current	3.5A / 115 V ; 2A / 230 V											
Inrush current	Cold start 40A											
Leakage current	<2mA/240VAC											
Over-load protection	105~135% Reset : auto-recovery											
Over-voltage protection	CH1 : 5.75~6.75V ; CH2 : 3.6~4.3V											
Over temperature protection	95°C ±5°C (TSW1) Type : shutdown Reset : auto recovery											
Temperature coefficient	±0.03% /°C (0°~50°C)											
Set-up, Rise, Hold-up time	800ms, 50ms, 16ms											
Power factor	PF>0.95/230VAC ; PF>0.98/115VAC											
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. Each axes											
Withstand voltage	I/P-O/P: 3KVACVAC I/P-FG: 1.5 KVAC ; O/P-FG : 0.5 KVAC											
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG : 500 VDC /100MΩ											
Working temp. & humidity	-10°C~+60°C (refer to output derating curve) 20~90% R.H.											
Storage temp. & humidity	-20°C~+85°C, 10%~95% R.H. (non-condensing)											
Dimensions	230 x 115 x 50 mm (Length x Width x Height) case 912											
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