

MEAN WELL

SWITCHING POWER SUPPLY **ISO-9001 CERTIFIED MANUFACTURER**

QP-375 SERIES

LOW COST, HIGH RELIABILITY .105° C OUTPUT CAPACITOR INTERNATIONAL AC INPUT RANGE ISOLATE CH3 & CH4 DC OUTPUT .MAIN OUTPUT REMOTE SENSE .POWER GOOD AND FAIL SIGNAL

.HIGH EFFICIENCY, LOW WORKING TEMPERATURE SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL	QP-375-5A			QP-375-5B				QP-375-5C				
SPECIFICATION	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
DC OUTPUT VOLTAGE	+5V	+12V	12V	12V	+5V	+12V	12V	5V	+5V	+12V	15V	15V
OUTPUT V. TOLERANCE	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	30A	10A	6A	3A	30A	10A	6A	3A	30A	9A	4A	4A
OUTPUT CURRENT RANGE	3.5-40A	0-10A	0-6A	0-3A	3.5-40A	0-10A	0-6A	0-3A	3.5-40A	0-9A	0-4A	0-4A
PEAK CURRENT	40A	16A	6A	3A	40A	16A	6A	3A	40A	16A	4A	4A
RIPPLE & NOISE (p-p)	100mV	150mV	150mV	50mV	100mV	120mV	120mV	50mV	100mV	150mV	150mV	240mV
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%
DC OUTPUT POWER	378W (max.) 357W (max.) 378W (max.)											
EFFICIENCY	77% 77% 77%							7%				
DC VOLTAGE ADJ.		CH1,2,3,4	1:+10,-5%			CH1,2,3	:+10,-5%		CH1,2,3,4:+10,-5%			
INPUT VOLTAGE RANGE	85-264VAC 47-63Hz; 120-370VDC											
AC CURRENT	6A/115V 3A/230V											
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC											
OUTPUT GOOD/INPUT POWER FAIL	10ms/1ms											
INRUSH CURRENT	COLD START 45A											
LEAKAGE CURRENT	<2mA/240VAC											
OVERLOAD PROTECTION	105%~	135% TY	PE: PULS	SE BY PL	JLSE RE	SET: AU	TO RECO	OVERY				
OVER VOLTAGE PROTECTION	CH1:5.	75~6.75V	TYPE:	SHUTDO	WN							
OVER TEMP. PROTECTION	80°C~±	5°C (TS	W1)TYPE	:SHUTD	OWN RE	SET:AUT	O RECO	/ERY				
REMOTE CONTROL	RC+/R0	C-:0~0.8V	POWER	ON ; 4V~	-10V POV	VER OFF						
TEMP. COEFFICIENT	±0.03%	6 / °C (0~	50°C)									
SETUP, RISE, HOLD UP TIME	800ms,	50ms, 20)ms									
VIBRATION	10~500	Hz, 2G 1	0min./1cy	cle, PER	IOD FOR	60min. E	ACH AXE	ES				
WITHSTAND VOLTAGE	I/P-O/P	:3KVAC I	/P-FG:1.5	KVAC O	/P-FG:0.5	KVAC						
ISOLATION RESISTANCE	I/P-O/P	, I/P-FG,	O/P-FG:5	00VDC /	100M Oh	ms						
WORKING TEMP., HUMIDITY	-10°C~	+60°C(RI	FER TO	OUTPUT	Γ DERAT	ING CUR	VE), 20%	~90% RH	1			
STORAGE TEMP., HUMIDITY	-20°C-+85°C, 10%-95% RH											
DIMENSION	280*127*63.5mm CASE:927											
WEIGHT	2.3Kgs											
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED											
EMC STANDARDS	CISPR22(EN55022) CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61000-3-2,3 VERIFICATION											

1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.

- 2.TOLERANCE: INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
- 3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uf & 47uf CAPACITOR.
 4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
- 5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD. 6.PEAK CURRENT CAN NOT EXCEED 60 SEC.
- 7.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TATAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER 8.ISOLATED CH3 & CH4 MAYBE SERIES CONNECTED OR CAN BE USED AS POSITIVE OR NEGATIVE OUTPUTS.

2003-03-20



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.HIGH EFFICIENCY, LOW WORKING TEMPERATURE SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL		QP-3	75-5D		QP-375-5E						
SPECIFICATION	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4			
DC OUTPUT VOLTAGE	+5V	+12V	12V	24V	+5V	+12V	24V	24V			
OUTPUT V. TOLERANCE	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%			
OUTPUT RATED CURRENT	30A	9A	4A	3A	30A	9A	3A	2A			
OUTPUT CURRENT RANGE	3.5-40A	0-9A	0-4A	0-3A	3.5-40A	0-9A	0-3A	0-2A			
PEAK CURRENT	40A	16A	6A	3A	40A	16A	4A	3A			
RIPPLE & NOISE	100mVp-p	120mVp-p	120mVp-p	240mVp-p	100mVp-p	120mVp-p	120mVp-p	240mVp-p			
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
LOAD REGULATION	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%			
DC OUTPUT POWER	378W (max.) 378W (max.)										
EFFICIENCY		78%						78%			
DC VOLTAGE ADJ.		CH1,2,3,4	1:+10,-5%			CH1,2,3,	4:+10,-5%				
INPUT VOLTAGE RANGE	85-264VAC 47-63Hz; 120-370VDC										
AC CURRENT	6A/115V 3A/230V										
POWER FACTOR	PF>0.95/230VAC, PF>0.98/115VAC										
OUTPUT GOOD/INPUT POWER FAIL	10ms/1ms										
INRUSH CURRENT	COLD START 45A										
LEAKAGE CURRENT	<2mA/240VAC										
OVERLOAD PROTECTION	105%-135% TYPE: PULSE BY PULSE RESET: AUTO RECOVERY										
OVER VOLTAGE PROTECTION	CH1:5.75-6.75V TYPE:SHUTDOWN										
OVER TEMP. PROTECTION	80°C-±5°C (TSW1)TYPE:SHUTDOWN RESET:AUTO RECOVERY										
REMOTE CONTROL	RC+/RC-:0-0.8V POWER ON ; 4V~10V POWER OFF										
TEMP. COEFFICIENT	±0.03%/ °	C (0~50°C)									
SETUP, RISE, HOLD UP TIME	800ms, 50ms, 20ms										
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES										
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC										
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms										
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%-90% RH										
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH										
DIMENSION	280*127*63.5mm CASE:927										
WEIGHT	2.3Kgs										
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED										
EMC STANDARDS	CISPR22(EI	N55022) CLAS	SS B, EN6100	0-4-2,3,4,5,6.8	,11; ENV5020	4; EN61000-3-	-2,3 VERIFIC	ATION			

1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.

- 2.TOLERANCE: INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
- 3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uf & 47uf CAPACITOR.
 4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
- 5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD. 6.PEAK CURRENT CAN NOT EXCEED 60 SEC.
- 7.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TATAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER 8.ISOLATED CH3 & CH4 MAYBE SERIES CONNECTED OR CAN BE USED AS POSITIVE OR NEGATIVE OUTPUTS.

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LOW COST, HIGH RELIABILITY .105°C OUTPUT CAPACITOR

INTERNATIONAL AC INPUT RANGE

ISOLATE CH3 & CH4 DC OUTPUT .MAIN OUTPUT REMOTE SENSE .POWER GOOD AND FAIL SIGNAL

.HIGH EFFICIENCY, LOW WORKING TEMPERATURE .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL		QP-3	75-24B		QP-375-24C						
SPECIFICATION	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4			
DC OUTPUT VOLTAGE	+24V	+5V	12V	12V	+24V	+5V	15V	15V			
OUTPUT V. TOLERANCE	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%			
OUTPUT RATED CURRENT	10A	10A	4A	4A	10A	10A	4A	4A			
OUTPUT CURRENT RANGE	1-10A	0-10A	0-4A	0-4A	1-10A	0-10A	0-4A	0-4A			
PEAK CURRENT	10A	16A	4A	4A	10A	16A	4A	4A			
RIPPLE & NOISE (p-p)	240mV	50mV	120mV	120mV	240mV	50mV	150mV	150mV			
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
LOAD REGULATION	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%	±0.8%			
MAX. DC OUTPUT POWER		386W 410W									
EFFICIENCY	78% 80%										
DC VOLTAGE ADJ.	CH1,2,3,4:±10% CH1,2,3,4:±10%										
INPUT VOLTAGE RANGE	85-264VAC 47-63Hz; 120-370VDC										
AC CURRENT	6A/115V 3A/230V										
INRUSH CURRENT	COLD START 45A										
LEAKAGE CURRENT	<2mA/240VAC										
OVERLOAD PROTECTION	105%-135% TYPE:PULSE BY PULSE RESET:AUTO RECOVERY										
OVER VOLTAGE PROTECTION	CH1:27.6-32.4V TYPE:SHUTDOWN										
OVER TEMP. PROTECTION	80°C~±5°C (TSW1)TYPE:SHUTDOWN RESET:AUTO RECOVERY										
TEMP. COEFFICIENT	±0.03% / °C (0-50°C)										
SETUP, RISE, HOLD UP TIME	800ms, 50n	800ms, 50ms, 20ms									
POWER FACTOR	PF>0.95/23	PF>0.95/230VAC, PF>0.98/115VAC									
REMOTE CONTROL	RC+/RC-:0~	RC+/RC-0-0.8V POWER ON ; 4V-10V POWER OFF									
OUTPUT GOOD/INPUT POWER FAIL	10ms/1ms	10ms/1ms									
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES										
WITHSTAND VOLTAGE	I/P-O/P:3K\	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC									
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms										
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%-90% RH										
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH										
DIMENSION	280°127°63.5mm CASE:927										
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EMC STANDARDS	CISPR22(F	N55022) CLAS	SS B. EN6100	0-4-2,3,4.5.6 8	.11: ENV5020	4: EN61000-3	-2,3 VERIFICA	ATION			

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