



PORTWELL INC  
 MR C CHEN  
 3RD FL  
 88 NEI-HU RD, SEC 1  
 TAIPEI TAIWAN

**RE: Project Number(s) - 02NB90755**

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**QQGQ2** September 17, 2002  
**Power Supplies, Information Technology Equipment Including Electrical Business Equipment - Component**

**PORTWELL INC**  
**3RD FL 88 NEI-HU RD, SEC 1, TAIPEI TAIWAN**

**E203292**

Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
Orion-200-XX, (where X may be any alphanumeric character)	115/230	47-63	0	5.15	62.0	185.0	3	1950	20B	0	1
				12.26	25.6	229.4					
				3.14	40.0	77.0					
				-5.10	10.2	18.0					
				-12.90	8.0	33.0					
Orion-2003-XX, (where X may be any alphanumeric character)	115/230	47-63	0	5.1	132.0	320	3	1950	20B	0 or 2,6	1
				13.1	75.0	621					
				3.4	90.0	104					
				5.3	12.0	44					
				13.2	10.0	48					
Orion-2004-XX, (where X may be any alphanumeric character)	115/230	47-63	0	5.22	177.0	559.0	3	1950	20B	0	1
				12.91	85.0	825.0					
				3.43	103.0	134.0					
				-5.23	15.0	24.5					
				-12.71	12.0	52.5					
Orion 150A Orion 150AX	115/230	50/60	0	5.18	34.6	138	3	1950	20B	0	1
				13.9	18	203					
				3.3	10	30					
				-4.98	1.6	7.5					
				-12.8	19	124					
ORION-450AX PW-450ATXA	115/230	60/50	0	5.14	2.9	13					
				3.3	28	450 W					
				5	40						
				-5	0.5						

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Model No.	Rated Input		SC	Output		Max VA	OC	SP	EP	FC	GC
	V	Hz		Max V	Max A						
ORION-450A PW-450APSC				12	17	450 W					
				-12	15						
				5 Vsb	15						
				3.3	—						
				5	43						
PW-450APSC				-5	0.5	450 W					
				12	18						
				-12	15						
				5 Vsb	—						
				3.3	—						
ORION-400AX, PW-400ATXA				5	43	400 W					
				-5	—						
				12	18						
				-12	—						
				5 Vsb	—						
ORION-400A PW-400APSC				3.3	22	400 W					
				5	40						
				-5	0.5						
				12	15						
				-12	1.5						
ORION-400A PW-400APSC				5 Vsb	1.5	400 W					
				3.3	—						
				5	38						
				-5	0.5						
				12	16						
ORION-400A PW-400APSC				-12	1.5	400 W					
				5 Vsb	—						
				3.3	—						
				5	38						
				-5	—						
ORION-330AX, or ORION-330SX, PW-300ATXA				12	16	330 W					
				-12	—						
				5 Vsb	—						
				3.3	15						
				5	30						
ORION-330A PW-330APSC				-5	0.5	330 W					
				12	15						
				-12	1.0						
				5 Vsb	1.5						
				3.3	—						
ORION-330A PW-330APSC				5	30	330 W					
				-5	0.5						
				12	14						
				-12	1.0						
				5 Vsb	—						
ORION-330A PW-330APSC				3.3	—	330 W					
				5	30						
				-5	—						
				12	14						
				-12	—						
PW-300Y				5 Vsb	—	300 W					
				3.3	15						
				5	30						
				-5	0.5						
				12	12						
ORION-250AX PW-250Y				-12	1.0	250 W					
				5 Vsb	1.5						
				3.3	15						
				5	25						
				-5	0.5						
			12	10							
			-12	1.0							

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Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
ORION-230AX PW-230Y				5 Vsb	1.5	230 W					
				3.3	15						
				5	23						
				-5	0.5						
				12	9						
				-12	1.0						
ORION-200AX PW-200Y				5 Vsb	1.5	200 W					
				3.3	15						
				5	20						
				-5	0.5						
				12	8						
				-12	1.0						
ORION-150AX PW-150Y				5 Vsb	1.5	150 W					
				3.3	15						
				5	15						
				-5	0.5						
				12	6						
				-12	1.0						
(All models output +3.3 V, 5 V sb, -12 V, -5 V can be optional)											
ORION-200A	115/230	60/50	0	3.3	15	200	3	1950	20B	0	1
				5	20	200					
				-5	0.5	200					
				12	8.0	200					
				-12	1.0	200					
				5Vsb	1.5	200					
ORION-200AX	115/230	60/50	0	3.3	15	200	3	1950	20B	0	1
				5	20	200					
				-5	0.5	200					
				12	8.0	200					
				-12	1.0	200					
				5Vsb	1.5	200					
ORION-230A	115/230	60/50	0	3.3	15	230	3	1950	20B	0	1
				5	23	230					
				-5	0.5	230					
				12	9.0	230					
				-12	1.0	230					
				5Vsb	1.5	230					
ORION-230AX	115/230	60/50	0	3.3	15	230	3	1950	20B	0	1
				5	23	230					
				-5	0.5	230					
				12	9.0	230					
				-12	1.0	230					
				5Vsb	1.5	230					
ORION-250A	115/230	60/50	0	3.3	15	250	3	1950	20B	0	1
				5	25	250					
				-5	0.5	250					
				12	10	250					
				-12	1.0	250					
				5Vsb	1.5	250					
ORION-250AX	115/230	60/50	0	5.36	54.14	173.85	3	1950	20B	0	1
				5.19	2.92	12.97					
				3.41	41.26	80.51					
				13.16	24.23	213.83					
				5.97	6.38	21.54					
				13.78	6.10	55.06					
ORION-300A	115/230	60/50	0	3.3	15	300	3	1950	20B	0	1
				5	30	300					
				-5	0.5	300					
				12	12	300					
				-12	1.0	300					
				5Vsb	1.5	300					

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Model No.	Rated Input		SC	Output			OC	SP	EP	FC	GC
	V	Hz		Max V	Max A	Max VA					
ORION-300AX	115/230	60/50	0	3.3	15	300	3	1950	20B	0	1
				5	30	300					
				-5	0.5	300					
				12	12	300					
				-12	1.0	300					
ORION-330A	115/230	60/50	0	5Vsb	1.5	300	3	1950	20B	0	1
				3.3	—	330					
				5	30	330					
				-5	0.5	330					
				12	14	330					
ORION-330AX	115/230	60/50	0	5Vsb	—	330	3	1950	20B	0	1
				5.19	3.12	14.79					
				5.45	65.57	205.23					
				3.42	38.54	84.73					
				13.25	38.99	336.3					
ORION-400A	115/230	60/50	0	6.15	7.00	23.67	3	1950	20B	0	1
				14.56	8.24	70.49					
				3.3	—	400					
				5	38	400					
				-5	0.5	400					
ORION-400AX	115/230	60/50	0	12	16	400	3	1950	20B	0	1
				-12	1.5	400					
				5Vsb	—	400					
				3.3	22	400					
				5	40	400					
ORION-450A	115/230	60/50	0	-5	0.5	400	3	1950	20B	0	1
				12	15	400					
				-12	1.5	400					
				5Vsb	1.5	400					
				3.3	—	450					
ORION-450AX	115/230	60/50	0	5	43	450	3	1950	20B	0	1
				-5	0.5	450					
				12	18	450					
				-12	1.5	450					
				5Vsb	—	450					
ORION-A1501-XX	100-240	47-63	3	5.11	65.44	250.43	3	1950	20B	0	1
				5.41	2.93	13.43					
				12.35	27.61	298.12					
				3.62	51.63	110.52					
				5.19	1.50	6.82					
ORION-D4601-XX	100-240	47-63	0	12.36	8.33	68.93	3	60950	20B	0	1
				5	14	150					
				3.3	10	—					
				12	6	—					
				-5	0.5	—					
ORION-A1501-XX	100-240	47-63	3	-12	0.8	—	3	60950	20B	0	1
				5sb	1.5	—					
				@5	@40-35	—					
				@12	@27-20	—					
				@-5	@0.8	—					
ORION-D4601-XX	100-240	47-63	0	@-12	@1	—	3	60950	20B	0	1
				@3.3(\$)	@30-28	—					
				@5Vsb	@2	—					

Marking: Company name or "E203292" and model designation.

**See General Information Preceding These Recognitions**

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.