

QQGQ2.E143030

Power Supplies, Information Technology Equipment Including Electrical Business Equipment - Component

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Guide Information

POWER-ONE AG E143030

ACKERSTRASSE 56

8610 USTER, SWITZERLAND

	Rated I	nput		Ma	x Outj	out					
Model No.	Volts	Hz	SC	V	A	VA	OC	SP	EP	FC	GC
110H(a) Serio	es										
	80-140ac 80-200dc	35-440	0,6	125	14	160	3/4	1950	2.5	0	1
12H(a) Series	5										
	8-16de	-	6	125	14	160	3/4	1950	10	0	1
1M(b)15W S	eries, KM(t)15W Se	ries								
	8.4-75de	-	4	24	7.7	25	2/3	1950	-	0	0
1MY15(b) Se	ries, KMY1	l5(b) Seri	ies								
	50-150de	-	4	24	7.7	25	3	1950	-	0	0
20-IMX35 Se	ries, 40-IM	X35 Seri	es, 20-K	XMX35 8	Series,	40-KMX	K35 Se	ries		•	
	9-75de	-	4	15	4.2	35	3/4	60950	5@	0	-
230H(a) Serie	es									•	
	160- 250ac 160- 250dc	35-440	0,6	125	14	160	3/4	1950	2.5	0	1
24H(a) Series	5										
	16-32de	-	6	125	14	160	3/4	1950	8	0	1
24Q(a) Series	5										
	12-40dc	_	4	48	16	106	3	1950	14	0	0

48H(a) Series										
32-640	le -	6	125	14	160	3/4	1950	3.15	0	1
48Q(a) Series	•									
24-800	le -	4	48	16	106	3	1950	10	0	0
AK1 Series, AK7 Seri	es									
8-350	le -	0	30	-	240	3	950	-	0	0
AK2 Series, AK8 Seri	es									
8-350	le -	0	30	_	240	3	950	-	0	0
AM(a) Series										
8-350	le -	6	125	14	160	3/4	1950	10	0	1
AMZ(a) Series										
8-350	de -	6	125	14	160	3/4	1950	10	0	2
BM(a) Series										
14-700	de -	6	125	14	160	3/4	1950	8	0	1
BMZ(a) Series										
14-700	de -	6	125	14	160	3/4	1950	8	0	2
BQ(a) Series										
12-400	de -	4	48	16	106	3	1950	14	0	0
CM(a) Series										
40-140a 28-140a		0,6	125	14	160	3/4	1950	3.15	0	1
CMZ(a) Series										
40-140a 28-140a		0,6	125	14	160	3/4	1950	3.15	0	2
CQ(a) Series										
24-800	de -	4	48	16	106	3	1950	10	0	0
DM(a) Series										
40-200a 44-220d		0,6	125	14	160	3	1950	2.5	0	1
DMZ(a) Series	•									
40-200a 44-220d		0,6	125	14	160	3	1950	2.5	0	2
DQ(a) Series										
36-1200	de -	0	48	16	106	3	1950	7	0	0
EM(a) Series										
40-250a 67-250a		0,6	125	14	160	3/4	1950	2.5	0	1
			<u> </u>							

EMZ(a) Series										
40-250ae 67-250de	35-440	0,6	125	14	160	3/4	1950	2.5	0	2
EQ(a) Series										
55-150de	-	0	48	16	106	3	1950	5	0	0
EWX Series										
100- 350de	-	6	114	20	280	3/4	1950	6.3	5	1
EX Series				•						
100- 350de	-	6	150	40	550	3/4	1950	20B	0	1
FM(a) Series	<u> </u>								•	
20-110de	_	6	125	14	160	3/4	1950	3.15	0	1
FMZ(a) Series										
20-110de	-	6	125	14	160	3/4	1950	3.15	0	2
GQ(a) Series										
18-60de	-	4	48	16	106	3	1950	14	0	0
IM(b)7W Series										
8.4-150de	-	4	24	14	7	4	1950	6.0	0	2
IML10(b) Series										
8.4-75dc	-	4	15	12.9	10.8	4	1950	6.0	0	2
IMS25 Series, KMS25S	Series									
14-75de	-	4	12	3.9	46.7	3/4	1950	0	-	-
IMS30 Series, KMS30 S	eries									
32-75de	-	4	5.1	7.4	35	3/4	1950	0	0	-
IMS6 Series, NV Series[[*r]									
8-75dc	-	6	3.3	-	6	1	60950	-	0	-
			30	-	6	1				
IMX4 Series, KMX4 Ser	ries[*r]									
8-75de	-	6	30	-	5	ı	1950	-	0	-
			3.3	-	5	1				
K1 Series, K7 Series										
85-250ac 8-372dc	47-440	0	30de	1	240	3	950	20B	0	0
K2 Series, K8 Series										
85-250ac 8-372dc	47-440	0	30de	-	240	3	950	20B	0	1

K4000, K500	0										
	85-264ac 88-264dc	50/60	0	56	-	150	3, 4	1950	1	0	0
KM(b)7W Se	eries										
	8.4-150dc	-	4	24	14	7	4	1950	6.0	0	2
KML10(b) Se	eries										
	8.4-75dc	-	4	15	12.9	10.8	4	1950	6.0	0	2
KP5000	187- 255ac	47-63	0	57.3	11.9	334	3, 4	1950	1	0	1
LCD30-1005											
	100- 240ac	47-63	0	5.7	7.2	35.86	1	1950	20B	0	1
LCD30-1012	[*r]										
	100- 240ac	47-63	0	14.4	25	30	1	1950	20B	0	1
LCD30-1024	[*r]										
	100- 240ac	47-63	0	28.7	25	30	1	1950	2 0B	0	1
LCD30-1045											
	100- 240ac	47-63	0	56.9	0.85	40.89	1	1950	20B	0	1
LCD60-1005											
	100- 240ac	47-63	0	48	11.8	69.6	3	1950	20B	0	1
LCD60-1012	[*r]										
	100- 240ac	47-63	0	14.5	5	60	1	1950	20B	0	1
LCD60-1024	[*r]										
	100- 240ac	47-63	0	27.7	25	60	1	1950	20B	0	1
LCD60-1048											
	100- 240ac	47-63	0	55.94	1.45	69.6	1	1950	20B	0	1
LGR Series											
	100- 230ac	47-63	0	24dc	9	30	3,4	1950	-	0	0
LGR(b)	85-265ac 88-168dc	47-63	0	24	7	30	3	60950	20B	0	2
LH Series											
	70-250ac 70-250dc	34-440	0,4,6	125	14	160	3/4	1950	2.5	0	1

LHR Series											
	100- 230ac	47-63	0	24	8.1	27	3	1950	6.3	0	0
LHR(b)	85-265ac 88-168dc	47-63	0	24	3.5	15	3	60950	20B	0	2
LM(a) Series											
	70-250ac 88-250dc	35-440	0,6	125	14	160	3/4	1950	2.5	0	1
LMZ(a) Serio	es										
	70-250ac 88-250dc	35-65	0,6	125	14	160	3/4	1950	2.5	0	2
LOK 4(c)(c)(c)-2-(c)(c)(c	e)(c)									
	90-264ac 88-372dc	47-63	0	54.5	5.2	101	3	1950	15	0	1
LOR 16(c)(c)	-2										
	85-264ac	50-60	0	24	4.1	97	3	1950	20B	0	2
LOR4(c)(c)(c	e)-2(b)										
	85-264ac	47-63	0	27	2.5	30	3	1950	15B	0	2
LOS 16(c)(c)	-2										
	85-264ac	50-60	0	24	1.6	40	3	1950	20B	0	2
LOS4(c)(c)(c))-2(b)					<u> </u>					
	85-264ac	47-63	0	24	1.27	15.2	3	1950	15B	0	2
LPC 1901, L	PC 1902, L	PC 1903						,			
	110- 230ac	47-63	0	95	2.7	297	-	1950	-	0	1
LT Series											
	100- 240ac	50/60	0	58	16.5	459	3	1950	-	0	0
LU17 Series											
	208- 230ac	47-63	0	58.5	30	-	4	1950	-	0	0
LWX Series											
	93-240ac 100- 350dc	14-440	0,6	114	20	280	3/4	1950	6.3	5	1
LX Series											
	93-240ac 100- 350dc	50/60	0,6	150	40	550	3/4	1950	20B	0	1
ML078-000	ı										

	230ac	47-63	0	56.6	33	1650	4	1950	-	0	0
NDS02ZG-X	X(d)										
	36-75dc	-	6	5	3.72	13.6	3	60950	5@	0	0
NDS03ZA-X	X(d)						.				
	36-75de	-	6	1.5	3	4.5	3	60950	5@	0	0
NDS03ZB-X	X(d)										
	36-75dc	-	6	1.8	3	5.4	3	60950	5@	0	0
NDS03ZD-X	X(d)						•				
	36-75dc	-	6	2.7	3	7.5	3	60950	5@	0	0
NDS03ZE-X	X(d)						•				
	36-75dc	-	6	3.3	3	9.9	3	60950	5@	0	0
NSA(a)(b)[*1	·]						•				
	-7 to - 144de	-	4	-48	-5	240	4	1950	-	0	-
NSC(a)(b)[*1	·]						•				
	-7 to - 144de	-	4	-48	-12	576	4	1950	-	0	-
NSR(a)(b)[*1	·]						•				
	-7 to - 80de	-	4	-36	-12	432	4	1950	-	0	-
P Family Ser	ies, R Fami	ly Series	[*r]				•				
	16-150dc	-	6	24	18.8	96	3	1950	1	0	0
PSA(a)(b)[*r]										
	7-144de	-	4	48	5	240	4	1950	-	0	-
PSB(a)(b)[*r]										
	7-144de	-	4	48	7	336	4	1950	-	0	-
PSC(a)(b)[*r	·]										
	7-144de	1	4	48	12	576	4	1950	-	0	ı
PSK(a)(b), P	SS(a)(b)[*r]										
	7-144dc	-	4	48	25	1200	4	1950	-	0	-
PSL(a)(b)[*r]										
	7-144dc	ı	4	48	12	576	4	1950	-	0	ı
PSR(a)(b)[*r]										
	7-80dc	-	4	36	12	432	4	1950	-	0	-
RDS04ZG	36-75de	1	6	5	8	35	3	60950	10@	0	0
RDS05ZE	36-75de	ı	6	3.3	5.5	18.15	3	60950	10@	0	0
RDS06ZB	36-75de	-	6	1.8	6	10.8	3	60950	10@	0	0

RF Series											
	36-75de	-	4	5	6	27.3	3/4	60950	0	0	-
RND0.8ZHE	Į.										
	36-75de	-	4	12	0.42	5	3/4	60950	0	0	-
RNS01EE, R	RNS01EG, R	NS0.9ET									
	18-72dc	-	4	7	1.5	6	3/4	60950	0	0	-
RNS02YG, F	RNS02YE										
	18-36dc	-	4	5.05	2	7.5	3/4	60950	0	0	-
RNS02ZG, F	RNS03ZE, R	NS0.6ZI	I, RND	02ZGE,	RND0	3ZEG, F	RND02	ZGG			
	38-75dc	-	4	12	5	16.5	3/4	60950	0	0	ı
S1 Series, S7	Series										
	85-250ac 8-372dc	47-440	0	30de	1	240	3	950	20B	0	1
S2 Series, S8	Series										
	85-250ac 8-372dc	47-440	0	30de	1	240	3	950	2 0B	0	1
S4000, S5000)										
	85-264ac 88-264dc	50/60	0	56	1	100	3, 4	1950	1	0	0
SFS @ Serie	s										
	36-72dc	-	6	5	13	63	3	60950	10	0	0
				1.5	8	ı	ı				
SFS08ZG	36-72de	-	6	5.5	11.8	63	3	60950	10	0	0
SFS13ZE	36-72de	-	6	3.7	16.5	56	3	60950	10	0	0
UT Series[*r]										
	70-140ac	50/60	0	54	10	-	3	950	-	0	0
				24	10	-	3				
VEW10 Seri	es										
	85-250ac 110- 330dc	47-63	0,6	48	3	15	4	1950	-	0	1
VEW1000-05	5									ı	
	100/ 120/ 200/ 240ac	50/60	0	5	300	1500	0	1950	-	0	0
VEW1000-48	8										
	100/ 120/	50/60	0	48	32	1530	0	1950	-	0	0

12 12.5 150 3 15 10.4 156 3	200/ 240ac										
110- 120	VEW15 Series										
100-120/ 240ac 50/60 0	110-		0,6	48	5	25	4	1950	-	0	1
Name	VEW200 Series	•									
New Year New Year	200-		0	48	60	300	4		1	0	1
110- 330de	VEW25 Series										
100-120/ 240ac	110-		0,6	48	10	50	4	1950	-	0	1
200- 240ac	VEW440 Series										
100-120/240ac 50/60 0 5 20 100 3 1950 20 0 0	200-		0	48	120	600	3	1950	-	0	1
12 12.5 150 3 15 10.4 156 3	VEW50-05, VEW50-12	, VEW50-	-15, VE	W50-24,	VEW:	50- 28, V	EW50	-48[*r]			
VEW70-05, VEW70-12, VEW70-15, VEW70-24, VEW70-28, VEW70-48 100- 120ac 50/60 0 5 43 219 3 1950 20 0 0	200-		0	5	20	100	3	1950	20	0	0
VEW70-05, VEW70-12, VEW70-15, VEW70-24, VEW70-28, VEW70-48 100- 120ac 50/60				12	12.5	150	3				
100- 120ac 50/60 0 5 43 219 3 1950 20 0 0				15	10.4	156	3				
12 18.2 218 3 15 14.5 217 3 24 8.9 213 3 28 8 225 3 48 4.8 230 3 VRW100-05, VRW100-05A, VRW100-12, VRW100-12A, VRW100-15, VRW100-15A, VRW100-24A, VRW100-48A[*r] 100-120/200-240ac 24 8.5 - 4 15 7 - 4 24 4.5 127 4	VEW70-05, VEW70-12	, VEW70-	-15, VE	W70-24,	VEW?	70- 28, V	EW70	-48			
15	I		0	5	43	219	3	1950	20	0	0
24 8.9 213 3				12	18.2	218	3				
28 8 225 3				15		217					
48 4.8 230 3				24		213					
VRW100-05, VRW100-05A, VRW100-12, VRW100-12A, VRW100-15, VRW100-15A, VRW100-24A, VRW100-48, VRW100-48A[*r] 100-120/ 50/60 0 5 20 121 4 1950 - 0 0 200- 240ac 12 8.5 - 4 15 7 - 4 24 4.5 127 4											
24, VRW100-24A, VRW100-48, VRW100-48A[*r] 100-120/ 50/60 0 5 20 121 4 1950 - 0 0 200- 240ac 12 8.5 - 4 15 7 - 4 24 4.5 127 4											
200- 240ac 12 8.5 - 4 15 7 - 4 24 4.5 127 4						A, VRW	100-1	5, VRW100)-15A, `	VRW1	100-
15 7 - 4 24 4.5 127 4	200-		0	5	20	121	4	1950	-	0	0
24 4.5 127 4				12	8.5	-	4				
 				15	7	-	4				
				24	4.5	127	4				
48 2.1 - 4				48	2.1	-	4				

VRW15-05, V	RW15-05A	\[*r]									
	100- 240ac	50/60	0	5	3	15	4	1950	1	0	0
VRW15-12, V	RW15-12	\[*r]									
	100- 240ac	50/60	0	12	1.3	15.6	4	1950	1	0	0
VRW15-15, V	RW15-15A	\[*r]									
	100- 240ac	50/60	0	15	1	15	4	1950	-	0	0
VRW15-24, V	RW15-24	\[*r]									
	100- 240ac	50/60	0	24	0.7	16.8	4	1950	-	0	0
VRW150-05, V 24, VRW150-2						A, VRW	150-1	5, VRW150)-15A, `	VRW:	150-
	100-120/ 200- 240ac	50/60	0	5	30	185	4	1950	-	0	0
				12	13	-	4				
				15	10	-	4				
				24	6.5	206	4				
				48	3.2	ı	4				
VRW200-05, Y 24, VRW200-2		5A, VRV	W200-12	2, VRW	200-12.	A, VRW	200-15	5, VRW200)-15A, `	VRW	200-
	100- 240ac	50/60	0	5de	40	1	4	1950	1	0	0
				12dc	19	ı	4				
				15dc	15	ı	4				
				24dc	9	-	4				
VRW25-05, V VRW25-24A,					[2A , V]	RW25-1	5, VRV	W25-15A,`	VRW25	5-24,	
	100- 240ac	50/60	0	5	6	1	4	1950	1	0	0
				12	2.5	1	4				
				15	2	-	4				
				24	1.3	-	4				
				48	0.6	-	4				
VRW300-05, Y 24, VRW300-2		95A, VRV	W300-12	2, VRW:	300-12.	A, VRW 	300-1	5, VRW300)-15A, `	VRW:	300-
	100- 240ac	50/60	0	5de	60	-	4	1950 w/D3	-	0	0
				12dc	26	-	4				

	<u> </u>		I	15de	21	_	4				
				24dc	13	-	4				
VRW450-05, 24, VRW450		5A, VRV	W450-12	2,VRW4	50-12 <i>A</i>	A, VRW	450-15	, VRW450)-15A, V	RW4	50-
	100/ 240ac	50-60	0	5	90	450	4	1950 w/D3	-	0	0
				12	40	480	4				
				15	32	480	4				
				24	20	480	4				
VRW50-05, V VRW50-24A					12A, V	RW50-1	5, VRV	W50-15A,	VRW50)-24,	
	100-120/ 200- 240ac	50/60	0	5	10	-	4	1950	-	0	0
				12	4.2	-	4		•		
				15	3.4	-	4				
				24	2.1	-	4				
				48	1	-	4				
VSR10-05, V	SR10-12, V	SR10-15	, VSR1)-24, VS	R10-48	8[*r]					
	100-120/ 200- 240ac 240- 330dc	50-60	0	5	4	-	4	1950 w/D3	-	0	0
				12	1.7	-	4		•		•
				15	1.4	-	4				
				24	0.9	-	4				
				48	0.4	-	4				
VSR120-05,	VSR120-12,	VSR120)-15, VS	R120-24	, VSR	120-48[*	r]				ı
	100-120/ 200- 240ac 240- 330dc	50-60	0	5	40	-	4	1950 w/D3	-	0	0
				12	17	-	4				
				15	13.5	-	4				
				24	9	-	4				
				48	4.5	-	4				
VSR170-05,	VSR170-12,	VSR170)-15, VS	R170-24	, VSR	170-48[*	r]				ı
	100-120/ 200-	50-60	0	5	66	-	4	1950	-	0	0

	240ac										
				12	28	1	4				
				15	23	1	4				
				24	15	1	4				
				48	7.5	-	4				
VSR20-05(a)	, VSR20-12	(a), VSR	20-15(a), VSR2	0- 24 (a)	, VSR20	-48(a)				
	100- 120ac	1	0	5	7	1	4	1950	1	0	0
				12	3	ı	4				
				15	2.6	ı	4				
				24	1.8	ı	4				
				48	0.9	ı	4				
VSR30-05, V	SR30-12, V	SR30-15	, VSR3(0- 24 , VS	R30-48	8[*r]					
	100-120/ 200- 240ac	50-60	0	5	12	-	4	1950 w/D3	-	0	0
				12	5.5	-	4				
				15	4.4	-	4				
				24	3.3	-	4				
				48	1.5	-	4				
VSR330-05, V	VSR330-12,	VSR330	-15, VS	R330-24	i, VSR	330-48[*	r]				
	100-120/ 200- 240ac	50-60	0	5	132	-	4	1950 w/D3	-	0	0
				12	56	-	4				
				15	45	-	4				
				24	28	-	4				
				48	14	-	4				
VSR60-05, V	SR60-12, V	SR60-15	, VSR60)-24, VS	R60-48	8[*r]					
	100-120/ 200- 240ac	50-60	0	5	22	-	4	1950	30B	0	0
				12	10	-	4				
				15	8	-	4				
				24	5	-	4				
				48	2.5	ı	4				
X30 Series											
	3-6de	-	3	4	15	60	3	60950	_	0	0

X31 Series											
	10.8- 13.2dc	1	3	5	17	147	3	60950	1	0	0
XB1(b) Serie	s										
	208- 240ac	50/60	0	59	15.5	678	3	1950	1	0	2
Y51 and Y50	Series										
	3.0- 13.2dc		3	3.35	19.5	62.4	3	60950	15	0	0

[*r] - Output values are rated.

- (a) Complementary Recognized to UL 1012 (QQFU2).
- (b) Followed by additional alphanumeric characters or a blank.
- (c) Represents any alphanumeric character or a blank.
- (d) May or may not be followed by a dash followed by suffix letters and/or numbers.

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QQGQ2.GuideInfo

Power Supplies, Information Technology Equipment Including Electrical Business Equipment - Component

[Power Supplies - Component] Power Supplies, Information Technology Equipment Including Electrical Business Equipment - Component

The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

GENERAL

This category covers component power supplies intended for use in/with information processing and business equipment. End-use products that employ these types of power supplies are covered under Information Technology Equipment Including Electrical Business Equipment (NWGQ).

Codes

The following summarizes and defines codes shown in the individual Recognitions in addition to those indicated under Power Supplies (**QQAQ2**).

Supply Category (SC) — Code identifies the type of supply to which the component is intended to be connected.

SC Categories	Code
Branch circuit power	0
NEC Class 2	1
Isolated extra low voltage (ELV)*	2
Isolated safety extra low voltage (SELV)*	3
Isolated secondary circuit	4
Limited energy isolated secondary circuit	5
Centralized DC	6

Maximum Voltage (Max V) — The maximum output voltage under any resistive loading condition is indicated in volts peak.

Maximum Amperes (Max A) — The maximum output current under any resistive loading condition is indicated in amperes rms.

Maximum Volt (Max VA) — The maximum output volt-amperes under any resistive loading condition is indicated in volt-amperes rms.

Output Category (OC) — Each output is identified to indicate the type of output.

OC Categories	Code
NEC Class 1	0
NEC Class 2	1
Isolated extra low voltage (ELV)*	2
Isolated safety extra low voltage (SELV)*	3
Isolated secondary circuit	4
* ELV and SELV are defined in UL 60950and UL 60950-1	

Spacings (SP) — The standard used in judging spacings (or creepage and clearance distances) is indicated by the Standard No.

External Protection (EP) — Tests on the component were conducted with the primary protected by external overcurrent protection.

EP Categories	Code
Specified current rating, branch protection	@B
Specified current rating, time delay fuse	@T
Specified current rating, not branch protection	@
(@) Indicates current rating of protection in amperes	

Field Connections (FC) — Code indicates whether supply and output connections have been investigated for field connections.

FC Categories	Code
Supply and output not investigated for FC	0
Supply not investigated for FC	1
Output not investigated for FC	2
Supply suitable for FC (+)	3
Output suitable for FC (+)	4
Supply and output suitable for FC (+)	5
Supply suitable for FC (++)	6
Output suitable for FC (++)	7
Supply and output suitable for FC (++)	8
(+) Employs pressure wire terminals or terminal block suitable for field wiring	
(++) Employs a connector, or a cord terminating in a connector	

Grounding Connection (GC) — Units with functional grounding connections (no safety grounding connection) shall have dead metal parts bonded to the end-product grounding means.

GC Categories	Code
Only functional grounding provided	0
Provided with safety grounding connection	1
Double insulated product	2

REBUILT PRODUCTS

This category also covers Recognized Component power supplies that are rebuilt by the original manufacturer or another party having the necessary facilities, technical knowledge and manufacturing skills. Rebuilt power supplies are rebuilt to the extent necessary by disassembly and reassembly using new or reconditioned parts. Rebuilt power supplies are subject to the same requirements as new power supplies.

RELATED PRODUCTS

See Power Supplies, General Purpose (QOFU2).

ADDITIONAL INFORMATION

For additional information, see Power Supplies (QQAQ2).

REQUIREMENTS

The basic standards currently used to investigate products in this category are UL 60950 or UL 60950-1, "Safety of Information Technology Equipment."

UL MARKING

Products Recognized under UL's Component Program are identified by significant markings consisting of the manufacturer's identification and catalog, model or other product designation which correspond with the marking specified in UL's published records. Only those components which actually bear the "Marking" shown in the individual Recognitions should be considered as being covered under the Component Program.

For rebuilt products the word "Rebuilt," "Remanufactured" or "Reconditioned" precedes the product name.

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