

C  **APPLICATION** **SELECTION GUIDE**
MPASS

TABLE OF CONTENTS

Page

POWER SUPPLY	1
LIGHTING	5
IGNITION	10
PORTABLE LOW POWER SYSTEMS	11
AUDIO	13
AUTOMATION AND ROBOTICS	15
TELEVISION/MONITOR/VCR/MULTIMEDIA	19
TELEPHONE SET	24
AUTOMOTIVE	26
DATA LOGGERS	30
POINT OF SALE TERMINALS	33
PHOTOCOPIERS	36
PRINTERS	39
PROFESSIONAL/PERSONAL COMPUTERS	42
MEMORY PRODUCTS SELECTOR	44

POWER SUPPLIES

HIGH POWER

FULL & HALF BRIDGE CONVERTER

AC	OUTPUT POWER	
	< 1000W	> 1000W
110V	STP10NA40/FI STW16NA40▲ STP10NA40 STW15NA50 STW20NA50 STH15NA50FI	STW16NA40▲ STW15NA50 STW20NA50 STE38NA50 STE53NA50
220V	STP9NA50/FI STP8NA50/FI STP6NA50 STW12NA50 STW15NA50 STW12NA60 STW16NA60▲	STW15NA50 STW20NA50 STW16NA60▲ STW12NA60 STE38NA50 STE53NA50 STE40NA60s
380V	STP5NA80 STP6NA80 STP5NA90 STW6NA80 STW7NA80 STW5NA90 STW6NA90 STW9NA80▲ STW8NA80▲	STW7NA90▲ STW6NA90 STW7NA80 STW8NA80 STE26NA90▲

▲ New Devices

* Other package options available

SECONDARY RECTIFICATION

OUTPUT CURRENT	OUTPUT VOLTAGE	
	5V	12V - 48V
1-15A	STPS260CE STPS640CT STPS1545CT/G STPS2045CT/G STPS3045CT/G/W	BYW98-200 BYW51-200 BYW99P-200 STPR620CT STPR1020CT/B/G STPR1620CT STPR2420CT BYT01-400 BYT03-400 BYT08P-400 BYT16P-400 BYW51-200 STPR320 STPS640CB STPS6100CB
20-120A	STPS4045CP STPS6045CP STPS12045TV STPS16045TV STPS24045TV	STPS80100TV BYV52-200 BYV54V-200 BYT230PIV-400 BYT30P-400 BYT60P-400 BYV255-200 BYT261PIV-400

TURBOSWITCH RECTIFIERS

Sales Type	V _{RRM} [V]	I _{F(AV)} [A]	Package*
STTA506D	600	5	TO220AC
STTA806D	600	8	TO20AC
STTA1206D	600	12	SOD93
STTA2006D	600	20	SOD93
STTA3006D	600	30	SOD93
STTA6006TV2	600	2x30	ISOTOP
STTA12006TV2	600	2x60	ISOTOP
STTA1206/G	600	12	D ² PAK
STTA506B	600	5	DPAK



POWER SUPPLIES

HIGH POWER

RECTIFIERS

Sales Type	V _{RRM} [V]	I _{F(AV)} [A]	Package
BYT01-400	400	1	F126
BYT03-400	400	3	DO201-AD
BYT08P-400	400	8	TO220AC
BYT16P-400	400	2 x 8	TO220AB
BYT230PIV-400	400	2 x 30	ISOTOP
BYT261PIV-400	400	2 x 60	ISOTOP
BYT30P-400	400	30	SOD93
BYT60P-400	400	60	SOD93
BYT200PIV-400	400	2 x 100	ISOTOP
BYV255V-200	200	2 x 100	ISOTOP
BYV52-200	200	2 x 30	SOT93
BYV54V-200	200	2 x 50	ISOTOP
BYW51-100	100	2 x 10	TO220AB
BYW51-200	200	2 x 10	TO220AB
BYW98-200	200	3	DO201-AD
BYW99P-200	200	2 x 15	SOT93
STPR1020CT/CB/CG	200	2 x 5	TO220AB/DPAK/D ² PAK
STPR1620CT	200	2 x 8	TO220AB
STPR2420CT	200	2 x 12	TO220AB
STPR320	200	3	F126
STPR620CT	200	2 x 3	TO220AB
STPS12045TV	45	2 x 60	ISOTOP
STPS1545CT/CG	45	2 x 7.5	TO220AB/D ² PAK
STPS16045TV	45	2 x 80	ISOTOP
STPS2045CT/CG	45	2 x 10	TO220AB/D ² PAK
STPS24045TV	45	2 x 120	ISOTOP
STPS260CE	60	2 x 1	SOT223
STPS3045CT/CG/CW	45	2 x 15	TO220AB/D ² PAK/ISOWATT220
STPS4045CP/CW	45	2 x 20	SOT93
STPS6045CP/CW	45	2 x 30	SOT93
STPS640CT	40	2 x 3	TO220AB
STPS80100TV	100	2 x 40	ISOTOP

POWER MOSFET

Sales Type	V _{dss} [V]	R _{DS(on)} [Ω]	Package
STW16NA40	400	0.3	TO-247
IRFP350FI	400	0.3	ISOWATT218
STP10NA40	400	0.55	TO-220
STP10NA40FI	400	0.55	ISOWATT220
STE38NA50	500	0.135	ISOTOP
STE53NA50	500	0.085	ISOTOP
STH15NA50FI	500	0.4	ISOWATT218
STP6NA50	500	1.1	TO-220
STP8NA50	500	0.85	TO-220
STP8NA50FI	500	0.85	ISOWATT220
STP9NA50	500	0.8	TO-220
STP9NA50FI	500	0.8	ISOWATT220
STW12NA50	500	0.6	TO-247
STW15NA50	500	0.4	TO-247
STW20NA50	500	0.27	TO-247
STE40NA60▲	600	0.135	ISOTOP
STW12NA60	600	0.6	TO-247
STW16NA60▲	600	0.4	TO-247
STP5NA80	800	2.4	TO-220
STP6NA80	800	1.9	TO-220
STW6NA80	800	2.4	TO-247
STW7NA80	800	1.9	TO-247
STW9NA80	800	1.0	TO-247
STW8NA80	800	1.5	TO-247
STP6NA80FI	800	1.9	ISOWATT220
STE26NA90▲	900	0.3	ISOTOP
STH7N90	900	1.4	TO-218
STP5NA90	900	2.5	TO-220
STW5NA90	900	2.5	TO-247
STW6NA90	900	1.9	TO-247

▲ New Product



POWER SUPPLIES

LOW POWER (< 200W)

SINGLE TRANSISTOR FLYBACK OR FORWARD CONVERTER

	Power Bipolar Type	Package	Power Mos Type	Package	Controllers Type
120V AC MAINS	BUL128	TO-220	STP5NA50	TO-220	UC3842 A/B
	BULT118	SOT32	STP5NA60	TO-220	UC3844 A/B
	BUV46	TO-220	STP5NA60FI	ISOWATT 220	UC3845 A/B
	BUL57	TO-220	STP8NA50	TO-220	L4990/A
	BUL310PI	ISOWATT 220	STP8NA50FI	ISOWATT 220	SG3525A
	BUF405	TO-220	STW12NA60	TO-247	SG3527A
	BUF405AXI	ISOWATT 221	STH12NA60FI	ISOWATT 218	
	BUF410	TO-218			
	BUF410FI	ISOWATT 218			
220V AC MAINS	BUL310	TO-220	STW12NA60	TO-247	
	BUF405	TO-220	STP3N100	TO-220	
	BUF405AXI	ISOWATT 221	STP3N100FI	ISOWATT 220	
	BUV47A	TO-218	STP5NA80	TO-220	
	BUV47AFI	ISOWATT 218	STP5NA80FI	ISOWATT 220	
			STP5NA90	TO-220	
			STH7N90	TO-218	
			STH7N90FI	ISOWATT 218	
			STW16NA60	TO-247	
			STP6NA80	TO-220	
			STP4NA80	TO-220	
			STP5NA90	ISOWATT220	
			STP3NA90	TO-220	
			STP3NA90	ISOWATT220	
			STH6N100	TO-218	
		STH6N100FI	ISOWATT 218		

TWO TRANSISTORS FORWARD CONVERTER

	Power Bipolar Type	Package	Power Mos Type	Package	Controllers Type
110V TO 220V MAINS	BUV46	TO-220	STP5NA50	TO-220	UC3842 A/B
	BUL128	TO-220	STP5NA50FI	ISOWATT 220	UC3843 A/B
	BUL57	TO-220	STP5NA60	TO-220	UC3844 A/B
	BUL310PI	ISOWATT 220	STP5NA60FI	ISOWATT 220	UC3845 A/B
	BUF405	TO-220	STP8NA50	TO-220	L4990/A
	BUF405AXI	ISOWATT 221	STP8NA50FI	ISOWATT 220	SG3524
	BUF410	TO-218	STH12NA60FI	ISOWATT 218	SG3525A
	BUF410FI	ISOWATT 218	STW12NA60	TO-247	SG3527A
	BUL310	TO-220	IRFP350FI	ISOWATT 218	
	BUF405	TO-220	STP3N100	TO-220	
	BUV47A	TO-218	STP3N100FI	ISOWATT 220	
	BUV47AFI	ISOWATT 218	STP5NA80	TO-220	
			STP5NA80FI	ISOWATT 220	
			STW16NA60	TO-247	
			STP10NA40	TO-220	
			STP10NA40FI	ISOWATT220	
			STP8NA50	TO-220	
			STP8NA50FI	ISOWATT220	
			STP9NA50FI	ISOWATT220	
			STP9NA50	TO-220	
		STW16NA40	TO-247		

POWER SUPPLIES

MODULES

SWITCHING VOLTAGE REGULATORS

Type	Function
GS-R400 Family	4A, 5-12-15-24 V fixed output voltage regulators family
GS-R405S	4A, 5V Fixed output plus reset output
GS-R400V	4A, Out voltage adjustable from 5 to 40V
GS-R400/2 Family	5V/2A, 12V/3A, 15V/3A, 24V/2A small size
GS-R1005	5V/10A switching voltage regulator
GS-R1012	12V/10A switching voltage regulator
GS-R51212	Triple output: 5V/3.5A; $\pm 12V/0.1A$
GS-R51212S	Like GS-R51212 with $\pm 12V$ adjustable out
GS-R51515S	Like GS-R51515 with $\pm 15V$ adjustable out

DC-DC CONVERTERS

Type	Function
GS1T5-5	1W - in: 5V out: 5V DC-DC converter
GS1T70-D540	1W ISDN DC-DC converter
GS2T5-5	2W - in: 5V out: 5V DC-DC converter
GS2T5-12	2W - in: 5V out: 12V DC-DC converter
GS2T5-9	2W - in: 5V out: 9V DC-DC converter
GS2T12-9	2W - in: 12V out: 9V DC-DC converter
GS2T48-D12	2W - in: 38V to 60V out: $\pm 12V$
GS3T5-3.3	3W - in: 5V out: 3.3V DC-DC converter
GS3T5-5.2	3W - in: 5V out: 5.2V DC-DC converter
GS2T5-D5	2W - in: 5V out: $\pm 5V$ DC-DC converter
GS2T5-D12	2W - in: 5V out: $\pm 12V$ DC-DC converter
GS2T5-5D15	2W - in: 5V out: 5 & $\pm 15V$ DC-DC conv.
GS4T48-5	4W - in: 38V to 60V out: 5V
GS5T48-12	5W - in: 38V to 60V out: 12 V
GS5T48-15	5W - in: 38V to 60V put: 15 V
GS5T24-5D15	5W - in: 18V to 30 out: 5 & $\pm 15V$
GS100T300Family	100W - V_{in} : 200 to 400V - V_{out} : 3.3-5-12-15-24-48V
GS175T48Family	175W - V_{in} : 38V to 60V - V_{out} : 3.3-5-12-15V
GS300T48-5	300W - V_{in} : 38V to 60V - V_{out} : 5V