



# SELECTION GUIDE

## Switching DCDC Power Supply

Step-down Converter												
P/N	Regulated Outputs	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>FB</sub> (V)	I <sub>Q</sub> (uA)	F <sub>sw</sub> (kHz)	Power Good	Soft Start	Light Load	Sync	Control Method	Package
JW5250S	1	2.7~6	1	0.6	40	1500	N	Internal	PFM	Y	COT	SOT23-5 / SOT563
JW5211	1	2.5~6	1.2	0.6	50	1500	Y	Internal	PFM	Y	PCM	SOT23-5 / SOT23-6
JW5231	1	2.5~5.5	1.5	0.6	50	1500	Y	Internal	FCCM	Y	PCM	SOT23-5 / SOT23-6
JW5224	2	2.5~5.5	1.5/1.5	0.6	50	1500	N	Internal	FCCM	Y	PCM	DFN2X3-8
JW5222A	1	2.5~5.5	2	0.6	50	2250	Y	Internal	FCCM	Y	PCM	DFN2X2-8
JW5223	1	2.5~6	2	0.6	40	1500	Y	Internal	PFM	Y	PCM	SOT23-5 / SOT23-6
JW5252	1	2.5~6	2	0.6	60	1000	Y	Internal	PFM	Y	COT	SOT23-5/TSOT23-8/SOT23-6
JW5222N	1	2.5~6	2.5	0.6	60	1000	Y	Internal	PFM	Y	PCM	SOT23-5 / SOT23-6
JW5222R	1	2.5~6	2.5	0.6	60	1000	Y	Internal	PFM	Y	PCM	SOT23-5 / SOT23-6
JW5213	1	2.5~6	3	0.6	50	1000	Y	Internal	PFM	Y	PCM	DFN2X2-8
JW5213A	1	2.5~6	3	0.6	50	1000	Y	Internal	PFM	Y	PCM	DFN2X2-8
JW5255	1	2.5~5.5	5	0.6	60	1000	Y	Internal	PFM	Y	PCM	DFN3X3-10
JW5033C	1	4.5~18	2	0.8	100	700	N	Internal	PFM	Y	PCM	SOT23-6
JW5033T	1	3.7~18	2	0.765	120	800	N	Internal	PFM	Y	PCM	TSOT23-6
JW5052C	1	4.5~18	2	0.6	100	700	N	Internal	PFM	Y	PCM	SOT23-6
JW5052S	1	3.7~18	2	0.6	120	800	N	Internal	PFM	Y	PCM	TSOT23-6
JW5059TC	1	4.5~18	2	0.765	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5059TF	1	4.5~18	2	0.765	150	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5092	1	3.7~18	2	0.8	120	800	N	Internal	PFM	Y	PCM	TSOT23-6 / SOT563
JW5092A	1	4.5~18	2	0.8	140	600	N	Internal	PFM	Y	COT	SOT563
JW5057C	1	4.5~17	3	0.6	100	500	N	Internal	PFM	Y	PCM	SOT23-6
JW5040	1	3.8~18	3	0.8	120	500	N	Internal	PFM	Y	PCM	SOT563/TSOT23-6
JW5040C	1	4.5~16	3	0.8	100	500	N	Internal	PFM	Y	PCM	SOT23-6
JW5061TC	1	4.5~18	3	0.765	150	600	N	Internal	PFM	Y	COT	SOT23-6
JW5061TF	1	4.5~18	3	0.765	150	600	N	Internal	FCCM	Y	COT	SOT23-6
JW5065	1	4~18	3	0.8	260	450	N	Internal	Selectable	Y	COT	TSOT23-8
JW5093	1	4.5~18	3	0.8	140	600	N	Internal	PFM	Y	COT	SOT563
JW5062T	1	4~18	4	0.765	260	600	Y	Internal	Selectable	Y	COT	TSOT23-6 / TSOT23-8
JW5031S	1	3.7~23	2	0.8	120	800	N	Internal	PFM	Y	PCM	TSOT23-6
JW5022S	1	4.5~24	2	0.923	50	500	N	Internal	PFM	Y	PCM	SOP8
JW5027	1	3.8~24	2	0.8	120	1400	N	Internal	PFM	Y	PCM	SOT23-6
JW5034	1	4.7~24	2	0.8	100	570	N	Internal	FCCM	Y	PCM	TSOT23-6
JW5041TF	1	4~24	2	0.765	260	800	N	Internal	FCCM	Y	COT	TSOT23-6
JW5041T	1	4~24	2	0.765	260	800	Y	Internal	Selectable	Y	COT	TSOT23-6 / TSOT23-8
JW5025	1	4.6~20	3	0.923	55	340	N	Adjustable	PFM	Y	PCM	ESOP8
JW5057S	1	4~24	3	0.6	220	500	N	Internal	PFM	Y	COT	TSOT23-6
JW5060	1	4~24	3	0.8	220	800	N	Internal	PFM	Y	COT	TSOT23-6
JW5060T	1	4~24	3	0.765	260	800	Y	Internal	Selectable	Y	COT	TSOT23-6 / TSOT23-8
JW5060TF	1	4~24	3	0.765	260	800	N	Internal	FCCM	Y	COT	TSOT23-6
JW5069A	1	4~23	6	0.6	45	500	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5069B	2	4~23	6	3.35	60	650	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5069C	2	5.5~23	6	5.1	40	650	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5068A	1	4~23	8	0.6	45	500	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5068B	2	4~23	8	3.35	60	650	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5068C	2	5.5~23	8	5.1	40	650	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5068CS	2	5.5~23	8	5.1	40	650	Y	Internal	PFM/OSM	Y	COT	QFN3X3-20
JW5079A	1	4~23	10	0.6	45	500	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5079B	2	4~23	10	3.35	60	650	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5079C	2	5.5~23	10	5.1	40	650	Y	Internal	PFM	Y	COT	QFN3X3-20
JW5017A	1	4.5~26	1.2	0.8	40	750/110	N	Internal	FCCM	Y	PCM	SOT23-6
JW5017F	1	4.5~26	1.2	0.8	40	1200	N	Internal	FCCM	Y	PCM	SOT23-6
JW5017S	1	4.5~26	1.2	0.8	40	1200	N	Internal	PFM	Y	PCM	SOT23-6
JW5071	1	4.5~28	2	0.6	120	600	N	Internal	PFM	Y	PCM	SOT23-6
JW5018	1	4.7~40	0.6	0.8	40	2000	N	Internal	PFM	Y	PCM	SOT23-6
JW5018B	1	4.7~40	0.6	0.8	40	800	N	Internal	PFM	Y	PCM	SOT23-6
JW5026	1	4.7~40	1	0.8	40	1100	N	Internal	FCCM	Y	PCM	SOT23-6
JW5015A	1	3.6~40	2	0.8	65	440	N	Internal	PFM	Y	PCM	ESOP8
JW5116F	1	4.7~40	3	0.8	65	100~1000	Y	Internal	PFM	N	PCM	ESOP8
JW5121	1	4.5~60	2	0.8	130	200~2000	Y	Internal	PFM	N	PCM	ESOP8/EMSOP10

Step-up Converter											
P/N	Regulated Outputs	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	Max. Switch Current (A)	I <sub>Q</sub> (uA)	V <sub>FB</sub> (V)	F <sub>sw</sub> (kHz)	Power Good	Soft Start	Type	Package
JW5510	1	3~20	4~20	10	65	0.9	400	N	Internal	Synchronous Converter	QFN3X4-15

LNB Power Supply									
P/N	Standard	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>OUT</sub> (V)	Programmable Current Limit	22kHz Tone Signal	Cable Compensation	Package	
JW4002	DiSEqC 1.x	8~14	0.55	14.2/19.3	-	External	Y	ESOP8	
JW4005	DiSEqC 1.x	4.5~14	1	13.5/18.5/14.5/19.5	Y	External	Y	ESOP8	
JW4005H	DiSEqC 1.x	4.5~14	0.6	14.1/19.2	-	External	Y	TSOT23-6	
JW4005S	DiSEqC 1.x	7~14	0.45	14.1/19.2	Y	External	Y	ESOP8 / TSOT23-6	

Buck-Boost Converter								
P/N	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>O</sub> (uA)	F <sub>SW</sub> (kHz)	V <sub>FB</sub> (V)	Max Switch Current (A)	Type	Package
JW3651	3~21	0.9~20	50	450	0.9	5	Converter	QFN3X4-15

### Offline and Isolated Power

ACDC Synchronous Rectifier							
P/N	Breakdown Voltage (V)	R <sub>ds(on)</sub> (mΩ)	V <sub>OUT</sub> (V)	Output Current (A)	Supported Operation Mode	Package	
JW7700A	40	15	5	2.4	DCM, QR	SOP8	
JW7700AC	40	15	5	2.4	DCM, QR	SOP8	
JW7700EC	40	20	5	2.1	DCM, QR	SOP8	
JW7703D	45	10	5	3.1	DCM, QR	SOP8	
JW7705	60	External	5~12	-	DCM, QR	SOT23-5	
JW7707A	60	24	5~12	2	DCM, QR	SOP8	
JW7707C	60	13	5~12	2.4	DCM, QR	SOP8	
JW7707D	60	10	5~12	3.1	DCM, QR	SOP8	
JW7707F	50	7	5	3.4	DCM, QR	SOP8	
JW7707K	60	7	5~12	3.4	DCM, QR	SOP8	
JW7715	80	External	3~12	-	CCM, CrCM, DCM, QR	SOT23-6	
JW7716	150	External	5~20	-	CCM, CrCM, DCM, QR	SOT23-6	
JW7716A	200	External	3~20	-	CCM, CrCM, DCM, QR	SOT23-6	
JW7717	500	External	3~20	-	CCM, CrCM, DCM, QR	SOP8	
JW7718A	40	15	5	2.4	CCM, CrCM, DCM, QR	SOP8	
JW7719	100	20	5~20	2	CCM, CrCM, DCM, QR	SOP8	
JW7719A	100	10	5~20	3	CCM, CrCM, DCM, QR	SOP8	
JW7719B	100	15	5~12	2.4	CCM, CrCM, DCM, QR	SOP8	
JW77186B	60	13	3~12	3	CCM, CrCM, DCM, QR	SOP8	
JW77198B	80	15	5~12	2.4	CCM, CrCM, DCM, QR	SOP8	
JW77198C	80	20	5~12	2.1	CCM, CrCM, DCM, QR	SOP8	

### ACDC Primary-side Regulation

P/N	Max Power (W)	PSR/SSR	QR	MOSFET Rating (V)	R <sub>DS(on)</sub> (Ω)	CV/CC Regulation	F <sub>MAX</sub> (kHz)	Cable Compensation	Standby Power (mW)	Package
JW1501A	12	PSR	N	600	3.6	±5%	70	Y	<75	SOP8
JW1501B	15	PSR	N	650	2.1	±5%	70	Y	<75	SOP8
JW1502	24	PSR	N	External	External	±5%	70	Y	<75	SOT23-6

### Offline Buck Regulator

PN	V <sub>IN</sub> (V)	I <sub>OUT</sub> (mA)	Min V <sub>OUT</sub> (V)	Frequency (kHz)	Dimming	Type	Package
JW1530	700	200	5	30	N	Converter	SOT23-3 / TO-92
JW1531O	-	-	3	-	N	Controller	SOP8
JW1531B	500	600	3	-	N	Converter	SOP7
JW1530C	500	200	5	30	N	Converter	SOT23-3 / TO-92
JW1531M	500	250	3	-	N	Converter	SOP7

### Isolated DCDC Converter

P/N	V <sub>IN</sub> (V)	I <sub>Q</sub> (uA)	Topology	Max Power(W)	R <sub>DS(ON)</sub>	F <sub>MAX</sub>	Soft Start	Features	Package
JW3510	3~42	170	Flyback	6	0.5	430	Internal	Opto-Free, EN control	SOT23-5

### Battery Management System

#### Battery Protection

P/N	Battery No.	V <sub>OC</sub> (V)	V <sub>OCL</sub> (V)	V <sub>OD</sub> (V)	V <sub>ODH</sub> (V)	V <sub>DOH1</sub> (mV)	V <sub>DOH2</sub> (mV)	V <sub>SHT</sub> (mV)	t <sub>OC</sub> (S)	t <sub>OD</sub> (S)	t <sub>DOH2</sub>	t <sub>SH</sub> (uS)	V <sub>col</sub> (mV)	Package
JW3311-0HV	10	4.25	4.15	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	20	TSSOP24
JW3311-0NF	10	4.25	4.15	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3311-0AG	10	4.25	4.15	2.7	3	50	100	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3311-0AH	10	3.8	3.5	2.3	2.6	50	100	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3311-9AS	9	3.65	3.55	2.5	2.7	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3311-8AS	8	3.65	3.55	2.5	2.7	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3317-7HF	7	4.25	4.15	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	30	TSSOP24
JW3317-7NF	7	4.25	4.15	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3317-7AR	7	4.2	4.1	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3317-6HF	6	4.25	4.15	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	30	TSSOP24
JW3317-6NF	6	4.25	4.15	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3317-6AR	6	4.2	4.1	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3317-5AL	5	4.25	4.15	2.8	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3317-5AM	5	4.3	4.2	2.5	3	100	200	400	1	1	1% t <sub>DOH1</sub>	300	Disable	TSSOP24
JW3312-AAAY	3~5	4.2	4.1	2.8	3	100	200	400	Programmable		10% t <sub>DOH1</sub>	300	25	TSSOP20
JW3312-ABY	3~5	4.25	4.15	2.7	3	100	200	400			10% t <sub>DOH1</sub>	300	25	TSSOP20
JW3312-ACY	3~5	4.25	4.15	2.7	3	100	200	300			10% t <sub>DOH1</sub>	300	25	TSSOP20
JW3312-PAY	3~5	3.85	3.75	2.2	2.5	150	200	400			10% t <sub>DOH1</sub>	300	35	TSSOP20
JW3312-NBY	3~5	4.25	4.15	2.7	3	100	200	400			10% t <sub>DOH1</sub>	300	Disable	TSSOP20
JW3312-PBY	3~5	3.7	3.6	2.1	2.4	100	200	500			10% t <sub>DOH1</sub>	300	65	TSSOP20
JW3312-ADY	3~5	4.2	4.05	2.8	3	100	200	400			10% t <sub>DOH1</sub>	300	15	TSSOP20
JW3312-AEY	3~5	4.25	4.15	2.7	3	100	200	400			10% t <sub>DOH1</sub>	300	25	TSSOP20

### Analog Front-End

P/N	Min Cells	Max Cells	Operation Voltage	Operating Temperature Range	Communication Interface	Support Cascade	Package
JW3302	4	14	8-60	-40 to 85	SPI	Y	LQFP48

Power Bank									
P/N	Charge Current	Discharge Current	Battery Voltage (V)	Fuel	Torch	BC1.2	Samsung	Apple	Package
JW3631	2.5	3.1	4.2 / 4.35	1,3,4	Y	Y	Y	Y	QFN4x4-24
JW3633	2	2.4	4.2 / 4.35	1,3,4	Y	Y	Y	Y	QFN4x4-24

Charger										
P/N	Battery Cells	Control Topology	Charge Current (A)	Max Operation $V_{IN}$	Absolute $V_{IN}$ (V)	Battery Voltage	OTG Function	Battery Type	Control Interface	Package
JW3653A	1~3	Switch-Mode Buck-boost	3	20	24	3~14	Y	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	QFN3x4-15
JW3655E	1~4	Switch-Mode Buck-boost	3	21	24	3~21	N	Li-Ion, Li-Polymer, Li-FePO4	Stand-alone	QFN3x4-15

### Linear Power Supply

eFuse and Hotswap											
P/N	Channel	FET	$V_{IN}$ (V)	Max $I_{OUT}$ (A)	$I_Q$	Soft Start	OCP	Programmable Current Limit	OVP	Programmable OVP Point	Package
JW7211	1	External	10~80	-	1.1mA	External	Y	Y	Y	Y	TSSOP16

### ORing and Ideal Diode

P/N	Channel	FET	High-side/Low-side	$V_{IN}$ (V)	$I_Q$	Features	Package
JW7201	2	External	High-side	6~80	360uA	Fault Indicator	DFN4x3-14 / SOP16
JW7203	1	External	Low-side	10~150	1.1mA	ORing	SOP8
JW7211	1	External	Low-side	10~80	1.1mA	ORing+Hotswap	TSSOP16
JW7260	1	External	High-side	6~80	360uA	ORing	TSOT23-6

### LDO

P/N	$V_{IN}$ (V)	$I_{OUT}$ (mA)	$I_Q$ (uA)	Output Options	Features	Package
JW7801	5~40	50	2.5	3.3V	Enable, OTP, OCP	SOT23-5
JW7805	1.8~5.5	300	6	1.2V / 1.35V / 1.5V / 1.8V / 2.2V / 2.5V / 2.7V / 2.8V / 2.9V / 3.0V / 3.3V / 4.2V / 5.0V / 1V / 1.2V / 1.5V / 1.8V / 2.1V / 2.5V / 2.7V / 2.8V / 2.9V / 3.0V / 3.3V / 4.2V	Enable, OTP, OCP, Output discharge, Bypass function	QFN1x1-4 SOT23-5

### Load Switch and USB Switch

P/N	Channel	$V_{IN}$ (V)	Max $I_{OUT}$ (A)	$I_Q$ (uA)	Soft Start	Enable	Fault Indicator	Programmable Current Limit	OCP	Package
JW7110	2	0.7~5.5	6	80	External	Active High	N	N	N	DFN3x2-14
JW7106	1	0.7~5.5	4	60	External	Active High	N	N	N	DFN2x2-8
JW7111	1	2.7~5.5	2.2	100	Internal	Active High	Y	Y	Y	SOT23-6 / DFN2x2-6
JW7111A	1	2.7~5.5	2.2	100	Internal	Active Low	Y	Y	Y	SOT23-6 / DFN2x2-6
JW7105	1	2.7~5.5	2.2	100	Internal	Active High	Y	Y	Y	SOT23-5
JW7105A	1	2.7~5.5	2.2	100	Internal	Active Low	Y	Y	Y	SOT23-5
JW7105B	1	2.7~5.5	3	100	Internal	Active High	N	Y	Y	TSOT23-5
JW7115	1	2.7~5.5	3	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115-1	1	2.7~5.5	1	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115-2	1	2.7~5.5	2	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115-2.5	1	2.7~5.5	2.5	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115A	1	2.7~5.5	3	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115A-1	1	2.7~5.5	1	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115A-2	1	2.7~5.5	2	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115A-2.5	1	2.7~5.5	2.5	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7111S	1	2.7~5.5	2.2	100	Internal	Active High	Y	Y	Y	SOT23-6 / DFN2x2-6
JW7111SA	1	2.7~5.5	2.2	100	Internal	Active Low	Y	Y	Y	SOT23-6 / DFN2x2-6
JW7115S	1	2.7~5.5	3	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115S-1	1	2.7~5.5	1	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115S-2	1	2.7~5.5	2	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115S-2.5	1	2.7~5.5	2.5	80	Internal	Active High	Y	N	Y	SOT23-5
JW7115SA	1	2.7~5.5	3	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115SA-1	1	2.7~5.5	1	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115SA-2	1	2.7~5.5	2	80	Internal	Active Low	Y	N	Y	SOT23-5
JW7115SA-2.5	1	2.7~5.5	2.5	80	Internal	Active Low	Y	N	Y	SOT23-5

### LED

Dimmable Solution									
P/N	Topology and Type	MOSFET	$V_{IN}$ (V)	Power@175-264Vac	Power@90-140Vac	Dimming	COMP	OTP	Package
JW1695	Linear	Internal	120	-	<100mA	TRIAC	N	N	SOP8
JW16976	Linear	Internal	120	-	130V / 50mA	TRIAC	N	150	ESOP8
JW16977	Linear	Internal	120	-	130V / 50mA	TRIAC	N	150	ESOP8
JW1827	BUCK	External	90~260	80V/600mA	45V / 600mA	PWM	N	145	SOT23-6
JW1827B	BUCK	Internal	90~260	80V/280mA	80V / 220mA	PWM	N	145	SOP7
JW1881A	BUCK	Internal	90~260	70V/180mA	90V / 180mA	Switch ON / OFF Dimming	N	150	SOP7
JW1881B	BUCK	Internal	90~260	70V/300mA	90V / 300mA	Switch ON / OFF Dimming	N	150	SOP7

**Non-isolated Switching Regulator**

P/N	Topology	PF	HV-JFET	R <sub>DS(ON)</sub> (Ω)	Breakdown	Power@ 175-264Vac	Power@ 90-264Vac	Dimming	COMP	Package
JW1965A	Boost	0.9	Y	6.8	650	450V / 40mA	450V / 30mA	N	Internal	SOP7
JW1965B	Boost	0.9	Y	1.8	600	450V / 80mA	450V / 60mA	N	Internal	SOP7
JW1965B	Boost	0.9	Y	1.8	600	450V / 100mA	450V / 80mA	N	Internal	DIP7
JW1965C	Boost	0.9	Y	1	650	450V / 120mA	450V / 100mA	N	Internal	SOP7
JW1965C	Boost	0.9	Y	1	650	450V / 140mA	450V / 120mA	N	Internal	DIP7
JW1965O	Boost	0.9	Y	External	External	100W	80W	N	Internal	SOP8
JW1967A	Low-side Buck	0.9	Y	8.5	500	90V / 150mA	70V / 150mA	N	Internal	SOP7
JW1967B	Low-side Buck	0.9	Y	5.5	550	90V / 180mA	70V / 180mA	N	Internal	SOP7
JW1967C	Low-side Buck	0.9	Y	3	500	90V / 220mA	70V / 220mA	N	Internal	SOP7
JW1967CH	Low-side Buck	0.9	Y	3.5	600	90V / 200mA	70V / 200mA	N	Internal	SOP7
JW1967CH	Low-side Buck	0.9	Y	3.5	600	90V / 220mA	70V / 220mA	N	Internal	DIP7
JW1967D	Low-side Buck	0.9	Y	2.3	550	90V / 250mA	70V / 250mA	N	Internal	SOP7
JW1967D	Low-side Buck	0.9	Y	2.3	550	90V / 280mA	70V / 280mA	N	Internal	DIP7
JW1967EH	Low-side Buck	0.9	Y	1.8	600	90V / 280mA	70V / 280mA	N	Internal	SOP7
JW1969B	Low-side Buck	0.9	Y	5.3	550	90V / 180mA	70V / 180mA	N	Internal	SOP7
JW1969C	Low-side Buck	0.9	Y	3.2	500	90V / 200mA	70V / 200mA	N	Internal	SOP7
JW1969D	Low-side Buck	0.9	Y	2.6	550	90V / 220mA	70V / 220mA	N	Internal	SOP7
JW1969D	Low-side Buck	0.9	Y	2.6	550	90V / 250mA	70V / 250mA	N	Internal	DIP7
JW1969E	Low-side Buck	0.9	Y	1.6	500	90V / 320mA	70V / 320mA	N	Internal	DIP7
JW1969EH	Low-side Buck	0.9	Y	1.8	600	90V / 300mA	70V / 300mA	N	Internal	DIP7
JW1765	High-side Buck	0.9	N	External	External	100W	80W	N	External	SOT23-6
JW1758B	High-side Buck	0.9	Y	1.8	600	90V / 280mA	70V / 280mA	N	External	SOP7
JW1758BC	High-side Buck	0.9	Y	2.3	550	90V / 250mA	70V / 250mA	N	External	SOP7
JW1758BC	High-side Buck	0.9	Y	2.3	550	90V / 280mA	70V / 280mA	N	External	DIP7
JW1758BH	High-side Buck	0.9	Y	1.8	600	90V / 280mA	70V / 280mA	N	External	SOP7
JW1725O	High-side Buck-Boost	0.9	N	External	External	120V / 450mA	120V / 450mA	N	External	SOT23-6
JW1602D	Low-side Buck	0.9	Y	2.6	600	90V / 240mA	72V / 240mA	N	External	SOP8
JW1606	Boost	0.9	N	External	External	200W	180W	Y	External	SOP8
JW1606D	Boost	0.9	N	2.3	600	450V / 80mA	450V / 60mA	Y	External	SOP8
JW1756O	Boost	0.9	Y	External	External	100W	80W	N	External	SOP8
JW1756B	Boost	0.9	Y	1.8	600	450V / 80mA	450V / 60mA	N	External	SOP8
JW1602	Low-side Buck-Boost	0.9	N	External	External	100W	80W	Y	External	SOP-8
JW1602	Low-side Buck	0.9	N	External	External	100W	80W	Y	External	SOP-8
JW1602B	Low-side Buck	0.9	N	5.5	550	90V / 180mA	70V / 180mA	Y	External	SOP-8
JW1609	Low-side Buck	0.9	N	External	External	100W	80W	N	External	SOT23-6
JW1609	Low-side Buck-Boost	0.9	N	External	External	100W	80W	N	External	SOT23-6
JW1680O	Flyback	0.9	Y	External	External	100W	80W	N	Internal	SOP8
JW19673A	Low-side Buck	0.9	Y	13	650	81V / 100mA	/	N	Internal	SOP7
JW19673A	Low-side Buck	0.9	Y	13	650	81V / 100mA	/	N	Internal	SOP4
JW19673B	Low-side Buck	0.9	Y	7	650	90V / 150mA	/	N	Internal	SOP7
JW19673B	Low-side Buck	0.9	Y	7	650	90V / 150mA	/	N	Internal	SOP4
JW19673C	Low-side Buck	0.9	Y	4.7	650	90V / 180mA	/	N	Internal	SOP7
JW19673C	Low-side Buck	0.9	Y	4.7	650	90V / 180mA	/	N	Internal	SOP4
JWB19673A	Low-side Buck	0.9	Y	13	650	81V / 100mA	/	N	Internal	ASOP7
JWB1967A	Low-side Buck	0.9	Y	8.5	500	90V / 150mA	70V / 150mA	N	Internal	ASOP7
JW1760	High-side Buck	0.5	N	External	External	100W	80W	N	N	SOT23-5
JWB1995B	Low-side Buck	0.5	Y	17	500	100V / 115mA	70V / 115mA	N	N	ASOP7
JWB1992M	Low-side Buck	0.5	Y	13	500	100V / 190mA	70V / 190mA	N	N	ASOP7
JWB1992A	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	N	N	ASOP7
JWB1997M	Low-side Buck	0.5	Y	13	500	100V / 190mA	70V / 190mA	N	N	ASOP7
JWB1997A	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	N	N	ASOP7
JWB1992M	Low-side Buck	0.5	Y	13	500	100V / 190mA	70V / 190mA	N	N	ASOP8
JWB1992A	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	N	N	ASOP8
JWB1995B	Low-side Buck	0.5	Y	17	500	100V / 115mA	70V / 115mA	N	N	ASOP8
JW19956B	Low-side Buck	0.5	Y	17	500	100V / 115mA	70V / 115mA	N	N	SOP4
JW19914C	Low-side Buck	0.5	Y	13	500	100V / 140mA	100V / 140mA	N	N	SOP4
JW19926M	Low-side Buck	0.5	Y	13	500	100V / 190mA	70V / 190mA	N	N	SOP4
JW19926A	Low-side Buck	0.5	Y	8	500	100V / 240mA	70V / 240mA	N	N	SOP4
JW1991C	Low-side Buck	0.5	Y	13	500	100V / 140mA	70V / 140mA	N	N	SOP7
JW1991CL	Low-side Buck	0.5	Y	13	500	100V / 140mA	70V / 140mA	N	N	SOP7
JW1991D	Low-side Buck	0.5	Y	11	500	100V / 160mA	70V / 160mA	N	N	SOP7
JW1991E	Low-side Buck	0.5	Y	9	500	100V / 180mA	70V / 180mA	N	N	SOP7
JW1992M	Low-side Buck	0.5	Y	13	500	100V / 180mA	70V / 180mA	N	N	SOP7
JW1992A	Low-side Buck	0.5	Y	8	500	100V / 250mA	70V / 250mA	N	N	SOP7
JW1992B	Low-side Buck	0.5	Y	4.4	500	100V / 300mA	70V / 300mA	N	N	SOP7
JW1992B	Low-side Buck	0.5	Y	4.4	500	100V / 350mA	70V / 350mA	N	N	DIP7
JW1992C	Low-side Buck	0.5	Y	2.9	500	100V / 400mA	70V / 400mA	N	N	SOP7
JW1992C	Low-side Buck	0.5	Y	2.9	500	100V / 500mA	70V / 500mA	N	N	DIP7
JW1992D	Low-side Buck	0.5	Y	2.2	500	100V / 500mA	70V / 500mA	N	N	SOP7
JW1992D	Low-side Buck	0.5	Y	2.2	500	100V / 600mA	70V / 600mA	N	N	DIP7
JW1992E	Low-side Buck	0.5	Y	1.5	500	100V / 500mA	70V / 500mA	N	N	SOP7
JW1992E	Low-side Buck	0.5	Y	1.5	500	100V / 700mA	70V / 700mA	N	N	DIP7
JW19927M	Low-side Buck	0.5	Y	13	500	100V / 230mA	70V / 230mA	N	N	SOP7
JW19927A	Low-side Buck	0.5	Y	8	500	100V / 300mA	70V / 300mA	N	N	SOP7
JW19927B	Low-side Buck	0.5	Y	4.4	500	100V / 300mA	70V / 300mA	N	N	SOP7
JW1994M	Low-side Buck	0.5	Y	13	500	100V / 180mA	70V / 180mA	N	N	SOP7
JW1994A	Low-side Buck	0.5	Y	8	500	100V / 300mA	70V / 250mA	N	N	SOP7
JW1994B	Low-side Buck	0.5	Y	5.5	500	100V / 300mA	70V / 300mA	N	N	SOP7
JW1994C	Low-side Buck	0.5	Y	2.8	500	100V / 400mA	70V / 400mA	N	N	SOP7
JW1994D	Low-side Buck	0.5	Y	1.8	500	100V / 500mA	70V / 500mA	N	N	SOP7
JW1995BL	Low-side Buck	0.5	Y	17	500	100V / 120mA	70V / 120mA	N	N	SOP7

Linear Solution								
P/N	LED Strings	V <sub>IN</sub> (V)	Max I <sub>OUT</sub> (mA)	Integrated MOSFET	Dimming	COMP	OTP	Package
JW1691H	1	230	150	Y	PWM, Analog, TRIAC	N	150	SOT89-3 / SOT223 / TO252
JW1691D	1	230	150	Y	PWM, Analog, TRIAC	N	150	ESOP8
JW1857	3	10~60	400	Y	PWM	N	N	ESOP8
JW18573	3	10~40	400	Y	PWM	N	N	ESOP8
JW1821	1	120	70	Y	PWM	Internal	145	ESOP8
JWB1981	1	230	100	Y	-	N	140	HSOP7
JW19813	1	230	100	Y	-	N	140	SOT89-3
JW19818	1	230	100	Y	-	N	140	ESOP8
JW19819	2	230	100	Y	-	N	140	ESOP8
JW19818T	1	230	100	Y	-	N	115	ESOP8
JW19813L	1	230	40	Y	-	N	140	SOT89-3
JW19816	1	230	150	Y	PWM, Analog, TRIAC	N	140	ESOP8
JW1698D	1	127~220	150	Y	-	N	150	ESOP8

DC Input lighting Product							
PN	V <sub>IN</sub> (V)	Topology	Switch Current Limit	Frequency	Dimming	Sync	Package
JW1121	4~28	Buck	1.5A	1MHz	PWM / Analog	Y	SOT23-6
JW1121A	4~28	Buck	1.5A	1MHz	PWM / Analog	Y	SOT23-6
JW1120	4.5~20	Buck	1.7A (Max Duty)	1MHz	PWM / Analog	Y	TSOT23-6
JW1123	4.5~28	Buck	2A	600K	PWM / Analog	Y	SOT23-6
JW1130H	4.5~40	Buck / Boost / Buck-Boost	2A peak	Constant 2us t <sub>off</sub>	PWM / Analog	N	ESOP8 / SOT23-6

Ripple Remover								
P/N	MOS	V <sub>IN</sub> (V)	Max I <sub>OUT</sub> (A)	OVP/SCP/OTP	Dimming	COMP	OTP	Package
JW1237	Internal	18~150	0.5	Hiccup	N	External	145	ESOP8
JW1237A	Internal	18~60	0.5	Hiccup	N	External	145	ESOP8
JW1237C	Internal	18~600	0.1	Hiccup	N	External	145	ESOP8
JW1221	External	18~600	5	Hiccup	N	External	145	SOT23-6
JW1221A	External	18~600	5	Hiccup	N	External	145	SOT23-6
JW1236A	Internal	16~80	0.5	Hiccup	N	Internal	150	SOT89-3 / TO252-2
JW1236B	Internal	16~80	1.8	Hiccup	N	Internal	150	TO252-2 / TO220-3
JW1251O	External	12~600	5	Hiccup	TRIAC / PWM/Analog	External	145	SOT23-6
JW1251A	External	18~60	0.5	Hiccup	TRIAC / PWM/Analog	External	145	ESOP8
JWM362	Internal	/	0.06	N	TRIAC / PWM/Analog	N	N	SOT23-3
JWM363	Internal	/	0.1	N	TRIAC / PWM/Analog	N	N	SOT23-3
JWM366	Internal	/	0.06	N	TRIAC / PWM/Analog	N	N	SOT23-3

Isolated Switching Regulator									
P/N	Topology	R <sub>DS(ON)</sub> (Ω)	Breakdown Voltage (V)	Power@175-264Vac	Power@90-264Vac	Dimming	COMP	OTP	Package
JW1602	Flyback	External	External	100W	80W	Y	External	140	SOP8
JW1609	Flyback	External	External	100W	80W	N	External	140	SOT23-6
JW16097	Flyback	External	External	100W	80W	N	External	140	SOT23-6
JW16098	Flyback	External	External	100W	80W	N	External	140	SOT23-6

H-Bridge							
P/N	V <sub>IN</sub> (V)	Current Capability(A)	R <sub>DS(ON)</sub> (HS+LS) (mΩ)	Integrate MOS	I <sub>q</sub> (uA)	Typical Application	Package
JW7902	3~15	1	1000	Y	10	Relay Driver, IR-cut Driver	DFN2x2-8 / SOT23-6
JW7951	3~20	3	60	Y	40	Wireless charger, Full-Bridge Power stage	QFN3x4-15 / ETSSOP20
JW7951C	4~20	3	40	Y	37	Wireless charger, Full-Bridge Power stage	QFN3x4-15 / ETSSOP20

Gate Driver Ics								
P/N	Channel	Configuration	Max Boot-Voltage(V)	Capacity (A)	Supply Range(V)	Propagation Delay(ns)	Delay Match(ns)	Package
JW7924	2	Low-side	/	4.5	4.5~18	13	1	SOP8 / EMSOP8 / DFN3X3-8

Electric Shock Protection						
P/N	R <sub>DS(ON)</sub> (Ω)	Breakdown Voltage(V)	Power@175-277Vac	Power@90-277Vac	Detection Mode	Package
JW1818O	External	External	100W	80W	Voltage	SOP8
JW1818B	1.8	600	50W	30W	Voltage	SOP8
JW1819O	External	External	100W	100W	Voltage	SOT23-6
JW1830D	1.9	600	70V/280mA	60V/280mA	Voltage	SOP8
JW1831D	1.9	600	70V/280mA	60V/280mA	Voltage	SOP16

## Contact Us

**HangZhou (Headquarters)**  
 9th Floor, Chuangye Building, Huaxing Rd., 99#  
 Xihu District, Hangzhou, 310012  
 China  
 Tel: +86-571-8980-7321  
 Email: sales-eastchina@joulwatt.com

**TaiWan**  
 12F., No. 10, Hengyang Rd., Zhongzheng Dist.,  
 Taipei City, 100  
 Taiwan  
 Tel: + 886-930-058-196

**ZhongShan**  
 Room 102, B35 Building, Dengdu Huating, Guzhen Town,  
 Zhongshan City, Guangdong Province, 528400  
 China  
 Tel: +186-7612-6596

**XiaMen**  
 Room 301, Huijin Huli Building, Anling Rd., 966-968#  
 Huli District, Xiamen, 361010  
 China  
 Tel: +86-592-9222-5813  
 Email: sales-eastchina@joulwatt.com

**ShenZhen**  
 No. 204, G2 Building, TCL International E City, No. 1001  
 Zhongshan Park Road, Nanshan District, Shenzhen, 518052  
 China  
 Tel: +86-755-8652-3320  
 Email: sales-southchina@joulwatt.com

**Korea**  
 #515, 5F, 230, Pangyoyeok-ro, Bundang-gu, Seongnam-si,  
 Gyeonggi-do, 13493  
 Korea  
 Tel: +82-10-4518-9829  
 Email: sales-korea@joulwatt.com