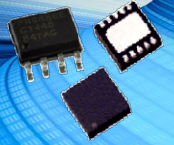


# Selection Guide



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*Drive your heart,  
Power your life*

# Selection Guide



## EPD Panel Power

Part No.	Key Features	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I Limit (mA)	Freq. (KHz)	I <sub>q</sub> (μA)	I <sub>s</sub> (μA)	OCP	OVP	Package
FP9928A	Power Supplier Solution with I <sup>2</sup> C Interface for EPD Panel	2.7~5.5	VPOS (15V), VNEG (-15V), VGH (22V), VGL (-20V) VCOM (1ch, 8bit)	VPOS=60mA VNEG=60mA	-	-	-	V	V	TQFN-24 (4×4)
FP9929A	Power Supplier Solution with I2C Interface for EPD Panels	2.7~5.5	VPOS (15V), VNEG (-15V), VGH (22V), VGL (-20V) VCOM (1ch, 8bit)	VPOS=200mA VNEG=200mA	-	1500	0.1	V	V	TQFN-32 (5×5)
FP9931	Power Supplier Solution with I2C Interface for EPD Panels	2.9~5.5	VPOS (7~15V), VNEG (-7~-15V) VGH (15~30V), VGL (-15~-25V) VCOM (1ch, 8bit)	VPOS=350mA VNEG=350mA	1MHz	1500	0.1	V	V	TQFN-40 (5×5)

## Motor Driver



Part No.	Key Features	V <sub>IN</sub> (V) Range	Output Current (mA)	Control Volt. Range (V) / Interface	Thermal Shut Down	Package
FP5501	Low-saturation, Low-voltage 2 Channels Bi-directional	1.8~5.5	0~400/ Channel	1.8~5.5	V	TDFN-10(3×3)
FP5502	Low-saturation, Low-voltage Bi-directional	1.8~5.5	0~400	1.8~5.5	V	SOT-23-6
FP5530	Dual H-Bridge Motor Driver Driver Two DC Motors or One Stepper Motor	2.7~15V	0~700 Channel	0~5.5 PWM	150C	TSSOP-16 TQFN-16
FP5532	One H-Bridge Motor Driver Bi-Directional	0~11V	0~1800	1.8~6 PWM	150C	SOP8 DFN8

## HV Buck DC/DC Converter

Part No.	Key Features	Type	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>OUT</sub> (mA)	Eff. % Max.	Freq. (KHz)	I <sub>q</sub> (μA)	I <sub>s</sub> (μA)	Shut Down	OCP	Package
FR9204	18V, 2.5A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.3~18	0.8V to 8V	2500	94	500	250	1	V	V	SOT-563
FR9204F	18V, 2.5A Synchronous Step-Down DC/DC Converter	HV Sync.	4.3~18	0.8V to 8V	2500	94	500	250	1	V	V	SOT-563
FR9204FH	18V, 2.5A Synchronous Step-Down DC/DC Converter	HV Sync.	4.3~18	0.765V to 8V	2500	93	1200	250	1	V	V	SOT-563 TSOT-23-6
FR9205	18V, 2A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.3~18	0.765V to 8V	2000	94	850	250	1	V	V	SOT-23-6
FR9205F	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.3~18	0.765V to 8V	2000	94	850	250	1	V	V	SOT-23-6
FR9206	18V, 3A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.3~18	0.765V to 8V 0.8V to 8V	3000	94	500	250	1	V	V	SOT-563 TSOT-23-6
FR9206F	18V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.3~18	0.765V to 8V 0.8V to 8V	3000	94	500	250	1	V	V	SOT-563 TSOT-23-6
 FR9207	18V, 4A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.5~18	0.76V to 8V	4000	94	500	400	1	V	V	TSOT-23-6
 FR9207F	18V, 4A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~18	0.76V to 8V	4000	94	500	400	1	V	V	TSOT-23-6
FR9208F	18V, 5A Synchronous Step-Down 85T DC/DC Converter	HV Sync.	4.3~18	0.765~8V	5000	94	500	400	1	V	V	TSOT-23-6

# Selection Guide

## HV Buck DC/DC Converter

Part No.	Key Features	Type	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>OUT</sub> (mA)	Eff.% Max.	Freq. (KHz)	I <sub>q</sub> (μA)	I <sub>s</sub> (μA)	Shut Down	OCP	Package
FR9208	18V, 5A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.3~18	0.765~8V	5000	94	500	400	1	V	V	TSOT-23-6
 FR9209	16V, 12A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	6~16	0.6V to 5.5V	12000	94	600 800 1000	300	1	V	V	TQFN-21 3x4
FR9831B	40V, 0.6A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~40	0.8~Vin (Max.) x0.90	600	92	500	900	10	V	V	SOT-23-6
FR9831H	40V, 0.6A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~40	0.8~Vin (Max.) x0.88	600	90	1000	900	10	V	V	SOT-23-6
FR9838	36V, 5A, 130KHz Synchronous Step-Down DC/DC Converter for Charger Application	HV Sync.	4.5~36	0.8~20	5000	97	130	1000	NA	X	V	TDFN-10 (5x6)
 FR9839	36V, 5A, 130KHz ASynchronous Step-Down DC/DC Converter	HV ASync.	3.5~40	0.8 to ~Vin	5000	92	Adj 100~ 2500	91	1	v	V	SOP-8 (EP)
FR9603	28V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~28	0.925V to ~Vin	3000	93	340	1200	2	V	V	TDFN-10 (3x3)
FR9608	28V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~28	0.925V to ~Vin	3000	93	340	1200	2	V	V	SOP-8 (EP)
FR9609	28V, 3A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.5~28	0.925V to ~Vin	3000	93	340	1200	2	V	V	SOP-8 (EP)
FR9850	18V, 2A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.3~18	0.765V to 8V	2000	94	850	250	1	V	V	SOT-23-6
FR9850F	18V, 2A Synchronous Step-Down DC/DC Converter	HV Sync.	4.3~18	0.765V to 8V	2000	94	850	250	1	V	V	SOT-23-6
FR9854	Sync. 4A Buck Internal Comp. Converter with fast constant on time control technique (FCOT)	HV Sync.	4.5~18	0.765~8V	4000	94	630	600	1	V	V	SOP-8 (EP)
FR9855	Sync. 5.5A Buck Internal Comp. Converter with fast constant on time control technique (FCOT) External SS/PG	HV Sync.	4.5~18	0.765~8V	5500	94	630	600	1	V	V	SOP-8 (EP)
FR9855B	Sync. 5.5A Buck Internal Comp. Converter with fast constant on time control technique (FCOT) External SS/PG	HV Sync.	4.5~18	0.6~8V	5500	94	630	600	1	V	V	SOP-8 (EP) TDFN-10 (3x3)
FR9856B	Sync. 6A Buck Internal Comp. Converter with fast constant on time control technique (FCOT) External VREG/PG	HV Sync.	4.5~18	0.765~8V	6000	94	630	600	1	V	V	SOP-8 (EP)
FR9863	28V, 3A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load	HV Sync.	4.5~28	0.596V to 12V	3000	94	500	150	3	V	V	TSOT-23-6
FR9863F	28V, 3A Synchronous Step-Down DC/DC Converter	HV Sync.	4.5~28	0.596V to 12V	3000	94	500	150	3	V	V	TSOT-23-6

# Selection Guide

## LV Buck DC/DC Converter

Part No.	Key Features	Type	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I <sub>OUT</sub> (mA)	Eff.% Max.	Freq. (KHz)	I <sub>q</sub> (μA)	I <sub>s</sub> (μA)	Shut Down	OCP	Package
FP6335	1.2A High Efficiency Sync. Buck Converter, Pure PWM	Low V Sync.	2.5~6.0	0.6~Vin	1200	95	1500	400	0.1	V	V	SOT-23-5/6 TDFN-6
FP6356	2A High Efficiency Sync. Buck Converter, Pure PWM	Low V Sync.	2.5~6.0	0.6~Vin	2000	95	1000	400	0.1	V	V	SOT-23-5/6
FP6359	3A High Efficiency Sync. Buck Converter, Pure PWM	Low V Sync.	2.5~6.0	0.6~Vin	3000	95	1000	80	0.1	V	V	SOT-23-6
FP6373A	3A High Efficiency Sync. Buck Converter	Low V Sync.	2.7~5.5	0.6~Vin	3000	96	1000	80	0.1	V	V	SOT-23-6
FP6381	1.5A High Efficiency Sync. Buck Converter	Low V Sync.	2.5~6.0	0.6~Vin	1500	95	1500	80	0.1	V	V	TDFN-6 (2×2)
FP6392	3.5A High Efficiency Sync. Buck Converter	Low V Sync.	2.7~5.5	0.6~Vin	3500	96	1000	80	0.1	V	V	TDFN-10 (3×3)
FP6385	3A High Efficiency Sync. Buck Converter	Low V Sync.	2.5~6.0	0.6~Vin	3500	95	1000	80	0.1	V	V	SOT-23-6 (FC)
FP6396	1.2A High Efficiency Sync. Buck Converter	Low V Sync.	2.5~6.0	0.6~Vin	1200	95	1500	30	0.1	V	V	SOT-23-5/6 TSOT23-5
FP6397	2A High Efficiency Sync. Buck Converter	Low V Sync.	2.5~6.0	0.6~Vin	2000	95	1000	40	0.1	V	V	SOT-23-5/6

## Boost DC/DC Converter

Part No.	Key Features	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V)	I Limit (mA)	Eff.% Max.	Freq. (KHz)	I <sub>q</sub> (μA)	I <sub>s</sub> (μA)	Shut Down	OTP	Package
FP6715	Low Start-up Sync. Boost Converter, Automatically PWM or PFM Mode	1.9~Vout	1.9~5.25	2500	93	550	25	1	V	V	SOT-23-6
FP6722	Low Quiescent Current Boost Converter	0.7~5.5	1.8~5.5	500	96	-	5	1	V	V	SOT-23-6
FP6723/A	Low Quiescent Current Boost Converter	0.7~5.5	3/3.3	350	96	-	5.5	1	V	V	SOT-23-6
FP6730	Large Input Voltage Range, Current Mode Step-up Converter	3~24	Vin~24	2500	93	1000	120	1	V	-	SOT-23-5 SOT-23-6
FP6733	Low Vin Stratup PWM Controlled, Step-up DC/DC Converter	0.9~5.5	2.9~5.5	1000	90	550	17	0.1	V	V	SOT-23-6 TSOT-23-6
FP67380	1Mhz 2.5A Current-Mode Step-Up DC/DC Converter	3~24	Vin~24	2500	95	1000	250	0.1	V	V	TDFN-6 (2×2)
FP6770	Low Noise, DC/DC Charge Pump Regulator	2.7~4.5	2.7~5	300	90	2000	3000	0.01	V	V	SOT-23-6

## USB Power Switch

Part No.	Output Current (A)	Channel No.	V <sub>IN</sub> (V)	Current Limit Type (A)	RDS(ON) (mΩ)	Package
FP6861C	0.55, 0.7, 1.1, 1.5 1.9, 2.1, 2.5, 3 (min)	1	2.7~5.5	0.775, 1, 1.25, 1.4, 1.75 2.15, 2.45, 2.9, 3.5	70/100	SOT-23-5 SOP-8
FP6861E-A/B	Adjustable	1	2.7~5.5	0.12~1.7	100	SOT-23-6 TDFN-6 (2×2)
FP6861E-C/E/F/H	0.7, 1.1, 1.5, 2.1 (min)	1	2.7~5.5	1, 1.4, 1.75, 2.45	110	SOT-23-5
FP6861G	2.2, 2.56, 3.2 (min)	1	2.5~5.5	2.6, 3.0, 3.76	45	SOT-23-5 (FC)
FP6861J	Adjustable	1	2.7-6	0.2~3.76	35 55 70	TSOT-23-6 (FC) TDFN-6 (2×2) SOT-23-6 (WB)

# Selection Guide

## Low Dropout Regulator

Part No.	Key Features	I <sub>OUT</sub> (mA)	V <sub>IN</sub> (V)	V <sub>drop</sub> (mV)	V <sub>OUT</sub> (V)	Accuracy	I <sub>q</sub> (μA)	I <sub>s</sub> (μA)	Shut Down	OTP	OCP	Package
FP6145	3A Ultra-Low Dropout with Low ESR Cap.	3000	1.2~5.5	240	ADJ	±2%	1000	10	V	V	V	SOP-8 (EP)
FP6145B	2A Ultra-Low Dropout with Low ESR Cap.	2000	1.2~5.5	240	ADJ	±2%	1000	10	V	V	V	SOP-8 (EP)
FP6166	600mA, Low Noise, High PSRR 70dB	600	2.0~5.5	800	ADJ	±2%	35	0.1	V	V	V	SOT-23-5 SOP-8
FP6183	300mA, Low I <sub>q</sub> LDO	300	2.7~5.5	250	1.0, 1.2, 1.8, 2.2, 2.7, 2.8, 3.0, 3.3	±1%	35	0.1	V	V	V	TDFN (1x1)
FP6185	Low Noise, High PSRR 70dB	300	2.7~5.5	250	1.2, 1.5, 1.8, 2.8, 2.9, 3.3	±2%	35	0.1	V	V	V	SOT-23-5
FP6186	Low Noise, High PSRR 75dB	300	2.2~5.5	230	ADJ	±1%	60	0.1	V	V	V	SOT-23-5
FP6186A	Low Noise, High PSRR 75dB	600	2.2~5.5	400	ADJ	±1%	60	0.1	V	V	V	SOT-23-5
FP6187	Low Noise, High PSRR 75dB	300	1.5~5.5	160	1, 1.2, 1.5, 1.8, 2.5, 2.8, 3.3	±1%	45	0.1	V	V	V	SOT-23-5 TDFN (1x1)

## White LED Driver

Part No.	V <sub>IN</sub> (V)	V <sub>OUT</sub> (V) Max.	LED Numbers Max.	Driving Type	Brightness Control	Eff. (%) Max.	Freq. (Hz)	OVP	Package
FP6395	2.5~6	6	2	Buck	-	95	1.5M	V	TDFN-6 (1.6x1.6) TDFN-6 (2x2) SOT-23-6
FP6745	2.5~5.5	40	10	Boost	PWM or Linear	87	1.3M	V	TSOT-23-5 TSOT-23-6
FP6755	2.5~5.5	29	8	Boost	PWM	87	1.3M	V	SOT-23-6 TDFN-6 (2x2)
FP6757	2.5~5.5	29	8	Boost	PWM	87	1.3M	V	SOT-23-6 TDFN-6 (3x3)
FR9708/A	2.8~24	24	8	Buck, Boost, Buck-Boost	PWM or Linear	95	1.2M	V	SOT-23-6



## Li-ion Charger

Part No.	V <sub>IN</sub> (V)	I <sub>OUT</sub> Max. (A)	V <sub>OUT</sub> TYP. (V)	Vol. Accy. (%)	VSEN	Temp. Sense	Safety Timer	Package
FP6908	4.5~28	1	4.2 ; 4.35	1	V	v	V	SOP-8 SOT-23-5 TDFN-8 (2mmx2mm)

## DDR5

Part No.	Application	V <sub>IN</sub> (V)	Channels No.	Buck Converters No.	Negative Outputs No.	LED Drivers No.	LDO Regulators No.	Package
FP9968	DDR5, SO-DIMM & UDIMM	4.25~5.5	5	3			2	TQFN-28 (3x4)

## Reset

Part No.	V <sub>IN</sub> (V)	Supply Current (μA)	V <sub>TH</sub> (V)	VTH. Accy. (%)	Low I <sub>q</sub> (μA)	Reset Output	Circuit Type	Package
 FP6805	1.5~6	1.5	2.2/2.3/2.6/2.7/2.8/2.9/ 3.1/4.0/4.4/4.6V/Adjust	±1	1.5/2.5	Active Low/High	Open-Drain	TSOT-23-3 TSOT-23-5 TSOT-23-6 TDFN-6
 FP6806	1.5~6	1.6	2.2/2.3/2.6/2.7/2.8/2.9/ 3.1/4.0/4.4/4.6V	±1	1.6/2.6	Active Low/High	Push-Pull	TSOT-23-3 TSOT-23-5 TSOT-23-6