

Bq2589x Charger Family Selection

	Bq2589x Family					
Features	bq25890/ bq25892	bq25890H	bq25895	bq25896	bq25898D/ bq25898	bq25898C
Efficiency @ 9V	Better	Best	Better	Better	Best	Best
Temperature Profile	JEITA	JEITA	JEITA	JEITA	JEITA	No
Max Charge Current	5A	5A	5A	3A	4A	3A
Boost Mode Output Current	2.4A	2.4A	3.2A	2.1A	2.4A	No OTG
USB Detection	D+D- / PSEL	D+/D-	D+D-	PSEL	D+D- / PSEL	PSEL
HVDCP Support	Yes / No	Yes	Yes	No	Yes / No	No
MTK-PE+ Support (Autonomous / Software)	Yes (Auto)	Yes (Auto)	Yes (Auto)	Yes (Auto)	Yes (Auto)	No
Default Battery Voltage	4.2V	4.2V	4.2V	4.2V	4.2V	4.2V
Direct BATSENSE	No	No	No	No	Yes	Yes
IR Compensation	Yes	Yes	Yes	Yes	Yes	No
Input OVP	14V	14V	14V	14V	14V	14V
Default VINDPM	4.4V	4.4V	4.4V	4.4V	4.4V	4.4V
Max VINDPM	14V	14V	14V	14V	14V	14V
ICO	Yes	Yes	Yes	Yes	Yes	No
REGN Voltage	6V	6V	6V	5V	6V	6V
Default Input Current Limit	3.25A	3.25A	3.25A	3.25A	3.25A	1.5A
Default Charge Current	2A	2A	2A	2A	2A	Charge disabled
Maximum Precharge Current	1A	1A	1A	1A	1A	1A
ADC	Yes	Yes	Yes	Yes	Yes	No
Full System Rst	Yes	Yes	Yes	Yes	Yes	No
D+/D- Driver	No	Yes	No	No	Yes	No
VOK Driver	No	No	No	No	No / Yes	No
ACOV Response	1ms	200ns	1ms	1ms	1us	1us
Package	QFN	QFN	QFN	QFN	CSP	CSP