PCN Number:		20240122004.0		PCN Date:	January 31, 2024
Title: Datasheet for BQ25628E and BQ25622E					
Customer Contact:		Change Management team	Dept:	Quality Services	
Change Type:		Electrical Specification			

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification.

The product datasheet(s) is being updated as summarized below.

The following change history provides further details.



BQ25628E SLUSFA4A – JUNE 2023 – REVISED JANUARY 2024

С	hanges from Revision * (July 2023) to Revision A (January 2024)	Page
•	Added 5mA to 310mA, 5mA steps to Charge termination feature	1
•	Changed t _{RST} to t _{QON RST} in QON pin description	5
•	Added PG pin description	5
•	Added MAX value to V _{POORSRC}	8
•	Changed IBAT_ADC LSB TYP value from 2mA to 4mA	8
•	Deleted tybus_ovp_prop, tpoorsrc_retry, tpoorsrc_restart, tybus_pd, tterm_dgl, trechg_dgl,	
	t _{PMID_OVP_PROP} and t _{PMID_OVP_FALL} specifications.	15
•	Added register conditions to test conditions for t _{TOP_OFF} specifications	
•	Added Figure 8-3 to TS Pin Thermistor Configuration	
•	Updated behavior of battery overcurrent protection in Section 8.3.9.1.2	
•	Deleted invalid reference in Section 8.3.9.2.1 to improve clarity	
•	Deleted invalid reference in Section 8.3.9.2.2 to improve clarity	
•	Deleted invalid reference in Section 8.3.9.2.4 to improve clarity	
•	Deleted invalid reference in Section 8.3.9.2.5 to improve clarity	
•	Deleted invalid reference in Section 8.3.9.2.6 to improve clarity	
•	Added I ² C address in Section 8.5.1	
•	Changed bit 5 to Reserved, ICHG Reset from X to Dh, POR from 1Ah to Dh, Range from 2h-4Ch to 1h-	·26h,
	and Bit Step from 2h to 1h in Register Fields and Descriptions for REG0x02_Charge_Current_Limit	
	register	36
•	Changed bit 3 to Reserved, IPRECHG Reset from 0xA to 5h, POR from Ah to 5h, Range from 2h-3Eh t	
	1h-1Fh, and Bit Step from 2h to 1h in Register Fields and Descriptions for REG0x10_Pre-charge_Contr	
	register	36
•	Changed bit 2 to Reserved, ITERM Reset from 0xC to 6h, POR from Ch to 6h, Range from 2h-7Ch to	
	1h-3Eh, and Bit Step from 2h to 1h in Register Fields and Descriptions for REG0x12_Termination_Cont	
	register	
•	Changed I ² C address from 0x6B to 0x6A in Register Maps section	36



С	hanges from Revision * (July 20	23) to Revision A (Januar	y 2024)	Page
•	Changed test to toon est in QO	N pin description		5
•	Added PG pin description			5
•				
•	Changed IBAT ADC LSB TYP v	alue from 2mA to 4mA		8
•			, t _{VBUS_PD} , t _{TERM_DGL} , t _{RECHG_DGL} ,	
	temin ove prop and temin ove FA	specifications	V V V V V V V V V V V V V V V V V V V	14
•	Added register conditions to test	conditions for trop OFF spe	cifications	14
•				
•	Updated behavior of battery over	rcurrent protection in Section	n 8.3.9.1.2	29
•			rity	
•				
•	and Bit Step from 2h to 1h in Re	gister Fields and Description	from 1Ah to Dh, Range from 2h-4Ch to ns for REG0x02_Charge_Current_Limit	
•	Changed bit 3 to Reserved, IPRI 1h-1Fh, and Bit Step from 2h to	ECHG Reset from 0xA to 5h 1h in Register Fields and De	n, POR from Ah to 5h, Range from 2h-3 escriptions for REG0x10_Pre-charge_C	Eh to ontrol
•	Changed bit 2 to Reserved, ITEF 1h-3Eh, and Bit Step from 2h to	RM Reset from 0xC to 6h, P 1h in Register Fields and De	OR from Ch to 6h, Range from 2h-7Ch escriptions for REG0x12_Termination_0	to Control
•	Changed VBUS_ADC range max	kimum from 111B6h to 11B6	Sh in REG0x2C_VBUS_ADC Register F	ield
⁻h∈	e datasheet number will be o	changing.		
	vice Family	Change From:	Change To:	

These changes may be reviewed at the datasheet links provided.

SLUSFA4

SLUSFA3

http://www.ti.com/product/BQ25628E

http://www.ti.com/product/BQ25622E

Reason_for Change:

BQ25628E

BQ25622E

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device

Changes to product identification resulting from this PCN:

None.

Product Affected:

BQ25628ERYKR	BQ25622ERYKR	

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

SLUSFA4A

SLUSFA3A

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