

BQ24725A: 0x12H Register

Figure 14. Charge Options Register (0x12H)

15	14	13	12	11	10	9	8
ACOK Deglitch Time Adjust	WATCHDOG Timer Adjust		BAT Depletion Comparator Threshold Adjust		EMI Switching Frequency Adjust	EMI Switching Frequency Enable	IFault_HI Comparator Threshold Adjust
R/W	R/W		R/W R/W		R/W	R/W	R/W
7	6	5	4	3	2	1	0
IFault_LOW Comparator Threshold Adjust	LEARN Enable	IOUT Selection	AC Adapter Indication (Read Only)	Not in use	Not in use	ACOC Threshold Adjust	Charge Inhibit
R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W

LEGEND: R/W = Read/Write; R = Read only; -n = value after reset

BQ24780S: 0x1H Register

15	14	13	12	11	10	9	8
Low Power Mode Enable	WATCHDOG Timer Adjust		Reserved			Switching Frequency	
R/W	R/W		R			R/W	
7	6	5	4	3	2	1	0
Reserved		LEARN Mode Enable	IADP Amplifier Gain for Primary Input	IDCHG Amplifier Ratio	Reserved		Charge Inhibit
R		R/W	R/W	R/W	R		R/W

LEGEND: R/W = Read/Write; R = Read only; -n = value after reset

BQ24725A total Registers

Table 2. Battery Charger Command Summary

REGISTER ADDRESS	REGISTER NAME	READ/WRITE	DESCRIPTION	POR STATE
0x12H	ChargeOption()	Read or Write	Charger Options Control	0xF902H
0x14H	ChargeCurrent()	Read or Write	7-Bit Charge Current Setting	0x0000H
0x15H	ChargeVoltage()	Read or Write	11-Bit Charge Voltage Setting	0x0000H
0x3FH	InputCurrent()	Read or Write	6-Bit Input Current Setting	0x1000H
0xFEH	ManufacturerID()	Read Only	Manufacturer ID	0x0040H
0xFFH	DeviceID()	Read Only	Device ID	0x000BH

BQ24780S total Registers

Table 4. Battery Charger Command Summary

REGISTER ADDRESS	REGISTER NAME	READ OR WRITE	DESCRIPTION	POR STATE
0x12H	ChargeOption0() Table 5	Read or Write	Charge Options Control 0	0xE108H
0x3BH	ChargeOption1() Table 6	Read or Write	Charge Options Control 1	0xC210H
0x38H	ChargeOption2() Table 7	Read or Write	Charge Options Control 2	0x0384H
0x37H	ChargeOption3() Table 8	Read or Write	Charge Options Control 3	0x1A40H
0x3CH	ProchotOption0() Table 9	Read or Write	PROCHOT Options Control 0	0x4A54H
0x3DH	ProchotOption1() Table 10	Read or Write	PROCHOT Options Control 1	0x8120H
0x3AH	ProchotStatus() Table 11	Read Only	PROCHOT status	0x0000H
0x14H	ChargeCurrent() Table 12	Read or Write	7-bit Charge Current Setting	0x0000H
0x15H	ChargeVoltage() Table 13	Read or Write	11-bit Charge Voltage Setting	0x0000H
0x39H	DischargeCurrent() Table 15	Read or Write	6-bit Discharge Current Setting	0x1800H, or 6144mA
0x3FH	InputCurrent() Table 14	Read or Write	6-bit Input Current Setting	0x1000H, or 4096mA
0xFEH	ManufacturerID()	Read Only	Manufacturer ID	0x0040H
0xFFH	DeviceID()	Read Only	Device ID	0x30H