

Delivering leading edge, innovative power solutions for more than 30 years....

Model:BL5000C217001S1PXXX_SH366002

May 21, 2024

BL5000C217001S1PXXX_SH366002

Into	rma	tion
HIIIO	11110	ition

BL5000C217001S1PXXX_SH366002 Model Number

BL5000C217001S1PXXX_SH366002, , Battery Cylindrical Can, Battery Li-Ion, , Input Description

Rating: , , Output Rating: Watts, Power rating with convection cooling (W) , V in 0.1V

increments, Approvals:



Model Picture

For Representation Only

Agency Documents	http://www.globtek.info/certs/BL3500C1865001S1PCMK/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000NqBuDEAV
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000NqBuDEAV
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf







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MODEL PARAMETERS	
Туре	Battery Cylindrical Can
Technology	Battery Li-Ion
Category	
Input Voltage	
I/P Amps (A)	
Wattage (W)	
Vout Range (V)	
Efficiency Level	
Ingress Protection	IPx0
Size (mm)	



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Model:BL5000C217001S1PXXX_SH366002 May 21, 2024 **ENCLOSURE** MAX75 1S1P (BC1)





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RATING TABLE

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Model Number	Voltage	Amps(A)	Watts(W)	RFQ
BL5000C217001S1PXXX	3.6 V	5	18.00	RFQ

Lithium-ion battery pack with SMBus-compatible battery management system (BMS)



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May 21, 2024

SPECIFICATION	NS
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Description:

General Pack Specifications

•	, i		,	U	,	`	,
Includes Built-In Charger?	No						
Includes Safety Protections?	Yes						
Includes Fuel Gauge?	Yes, via SMBus						
	ICs: SH366002 + HY2113 + HY2115						
BMS Details:							
	PCB: 500-12011920(R)						
Cell configurations for which this electrical specification applies:	1s1p, 1s2p, 1s3p, 1s4p						
Nomenclature:	The abbreviation (# 'p') is the "# of pa	rallel strings" ((i.e. the "	Y" in XsY	/ p)		
Nomenciature.	The abbreviation (# 's') is the "# of se	ries cells in ea	ch string	ı" (i.e. the	"X" in 2	XsYp))

Cell Specifications

Cell P/N:	LR2170
Nominal Cell Capacity:	5000mAh [Per cell manufacturer spec, 4.2V - 2.5V discharge, 0.2C, +25°C]
Initial Internal Impedance per Cell:	30mΩ (max.)
Cell Approvals:	UL1642

Charge Specifications

CC Current:

CV

Compatible Charging Method:	Constant current (CC)	+ constant-v	oltage (CV	')		
SMBus Smart Charger Compatible (SBS)?	Yes, pack suggests ch (SBS compatible charg	0 01	neters bas	ed on measu	red pack te	emperature and SoC
		1s1p	1s2p	1s3p	1s4p	

	10.6	.026	1006	10.6
0°C to 10°C	0.375A	0.75A	1.125A	1.50A
10°C to 45°C	1.00A	2.00A	3.00A	4.00A
•				

[Maximum recommend values & SMBus ChargingCurrent() defaults]

		1s1p, 1s2p, 1s3p, 1s4p
	0°C to 5°C	4.000V
/oltage:	5°C to 35°C	4.125V
	35°C to 45°C	4.000V

[Maximum recommended value & SMBus ChargingVoltage() default]

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odel:BL5000C217001S1PXXX_SH366002			cell's voltage Il cells are ≥3		May 21, 20 e charger should supply 0.075C [0.375A	
Pre-Charge Current:	1010	102n	102n	10.4n	7	
	1s1p	1s2p	1s3p 1.125A	1s4p 1.50A	_	
	0.375A	0.75A	1.125A	1.50A		
	[Maximum	recommend	d values]			
Charge-Termination Current:	0.05C [0.2	50A • (# 'p')]	<u>-</u>			
Discharge Specifications						
Maximum Continuous Discharge Current:	5.0A					
Recommended Discharge Cutoff Voltage:	3.0V					
Usable Discharge Capacity (typ.):		· · · · -		harge @ 0.20 harge @ 0.20	-	
Cycle Life (typ.):	750 cycles 25°C]	s [≥ 70% of 1	st cycle capa	acity, [4.125 -	2.8V, 0.2C charge / 0.2C discharge,	
Environmental						
Ambient Temperature Range (in Charge):	0°C to 45°	С				
Ambient Temperature Range (in Discharge)						
Humidity:	0 - 85% R	H				
Atmospheric Pressure:	86 - 106kF					
		SoC betweer	1 30 - 50%			
	-20°C to 5 0 - 70% R					
Storage:			ce charge into	anvale:		
	Suggested maintenance charge intervals: Every 3 months at -20°C to 25°C					
	-	onth at -20°				
Handling:	-			ING AND SA	FETY PRECAUTIONS FOR Li-lon &	
nanding.	Li-Polyme	r.				
Recoverable Protection Paral Over-Voltage in Charge:	Trip: 4	1.25V ± 0.05 1.05V ± 0.05				
	Trip delay	1s (typ.)				
	Trip: 2	2.80V ± 0.05	V			
Under-Voltage in Discharge:	Release: 2.80V ± 0.05V					
	Trip delay	120ms (typ	.)			
	Delay			rip threshold		



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May 21, 2024

Over-Current in Charge:		1s1p	1s2p	1s3p	1s4p			
	8ms(typ.)	3.5A (min.)	3.5A (min.)	3.5A (min.)	4.2A (min.)			
		5.0A (max.)	5.0A (max.)	5.0A (max.)	6.0A (max.)			
Over-Current in Pre-Charge (typ.)	N/A							
	Delay	Delay Trip threshold						
Over-Current in Discharge:		1s1p	1s2p	1s3p	1s4p			
	8ms(typ.)	5.2A (min.)	5.2A (min.)	5.2A (min.)	6.0A (min.)			
		7.0A (max.)	7.0A (max.)	7.0A (max.)	8.0A (max.)			
	Trip: 45°C							
Over-Temperature in Charge (typ.):	Release: 4							
ever remperature in energe (typ.).	-	e temperature]					
	Note: SBS	flag only						
Under-Temperature in Charge (typ.):	N/A							
	Trip: 60°C							
Over-Temperature in Discharge (typ.):	Release: 4							
3. (3),	[Cell surface temperature]							
	Note: SBS	flag only						
Under-Temperature in Discharge (typ.):	N/A							
Non-Recoverable (Permane	nt Fail) Pr	otection F	Parameters	8				
Non-Recoverable (Permane	nt Fail) Pr	otection F	Parameters	6				
Protections:	·	otection F	Parameters	5				
Protections:	None				SJ/T 11364-2014			
Protections: Approvals & Regulatory	None Complies v Complies v	vith 2011/65/E vith 2013/56/E	J + (EU)2015/8	363 and China	SJ/T 11364-2014 , EN61000-6-1:20			
Protections: Approvals & Regulatory RoHS:	Complies v Complies v EN61000-6	vith 2011/65/E vith 2013/56/E	J + (EU)2015/8 J, including, bu	363 and China				







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Model:BL5000C217001S1PXXX_SH366002	May 21, 202 ⁴
DERATING CURVE	



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INPUT CONFIGURATION	







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odel:BL5000C217001S1PXXX_SH366002	May 21, 20:
Approvals	
Logo	