

TBSPP-2S4P Lithium Ion Smart Battery



Total Battery Solutions Ltd, Lithium Ion Smart battery range is a fully featured primary and one shot secondary protection system with, coulomb counting Fuel Gauge compliant with SMBUS rev.1.1 for battery data and including a manual [5LED] State of Charge (SOC), making the TBS Li-Powerpak a fully reliable and safety compliant smart battery, packed with the latest technology. Housed in a designer box in ABS the Li-PowerPak comes in a wide range of options.

Cell Manufacturer	LG Chem	Battery External Height	46mm
Battery Voltage	7.4V Nom	Battery External Width	97mm
Battery Capacity	12Ah	Battery External Depth	68mm
Battery Chemistry	Lithium Ion	Operating Temperature Max	50+ Deg C
Weight		Operating Temperature Min	-20 Deg C

Electrical Performance

Item	Description	value	Unit
Il	Nominal max laod	4.5	A
Il trip	Nominal trip	5	A
Il trip hyst.	Nominal time to trip	3	s
Il short 1	Nominal short cct	14	A
Il short 1	Nominal time to trip	31	ms
Il short 2	Nominal short cct	27.5	A
Il short 2	Nominal time to trip	425	us
Overvoltage	any cell	4.3	V
Overvoltage	time to trip	2	S
Undervoltage	any cell	2.3	V
Undervoltage	time to trip	2	S
cell one shot	any cell	4.45	V
cell one shot	time to trip	2	S
iq op	operating current	600	uA
iq sleep	sleep current	150	uA
lqshut down	any cell <2.1V	5	uA
temp charge	trip	45	C
temp disch.	Trip	60	C



Fuel Gauge accuracy is +/-1%, it is a trans-impedance type based on a Texas Instruments ASSP. The TBSPP Lithium power pack does not require in field calibration, as cells are high quality Lithium Ion.

Battery Output

Red	P+	Black	P-	Yellow	Th	Green	SMBUS (Data)	Blue	SMBUS (Clock)
------------	----	--------------	----	---------------	----	--------------	--------------	-------------	---------------