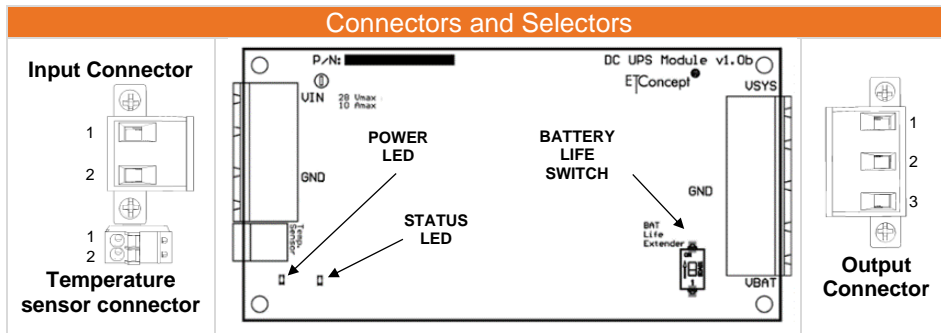
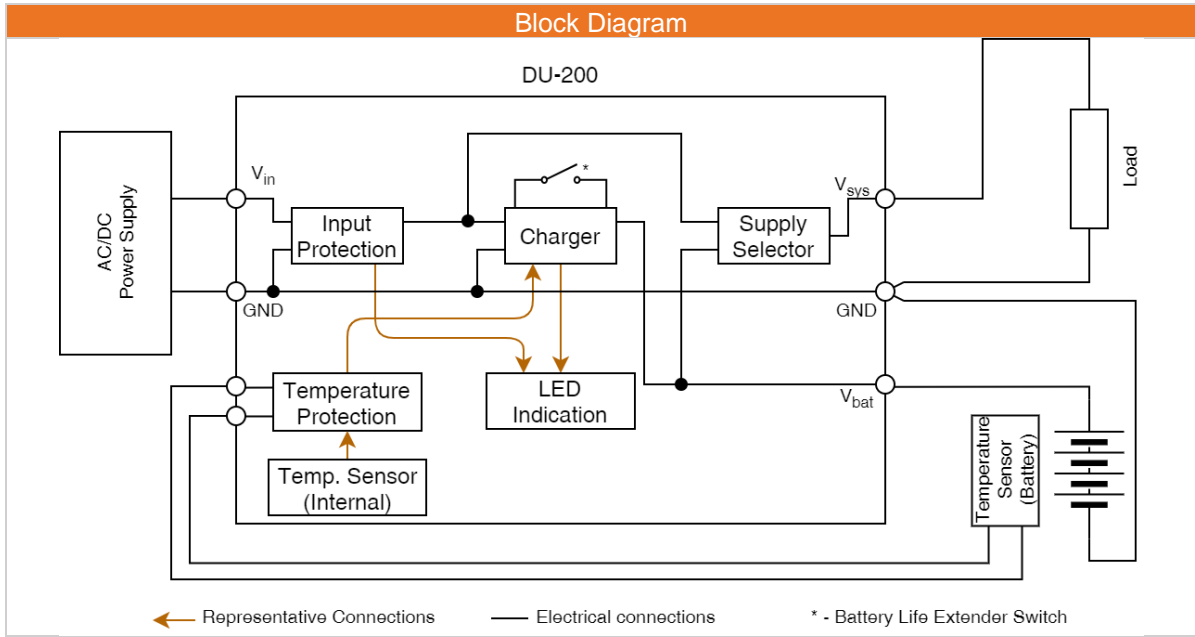


Features :

- Charging current configurable
- Up to 200 W LiPo/Li-Ion* charger
- 3 state charger
- High efficiency charger (up to 97%)
- Protections:
 - Input overvoltage up to 60 V
 - Supply reverse polarity
 - Charge overcurrent
 - Charger over temperature
 - Battery over temperature
- Cooling by air convection (Fanless)
- Bi-color LED for charger status
- Bi-color LED for input supply status
- 2 years warranty

* Other battery chemistries on demand.

		Technical Data							
		Model	DU-200-1S	DU-200-2S	DU-200-3S	DU-200-4S	DU-200-5S	DU-200-6S	
Input	Rated Voltage		5.5 - 30 V	10 - 30 V	14 - 30 V	18 - 30V	21 - 30 V	27 - 30 V	
	Current (Note 1)		10 A max.						
Battery	Charge Voltage (Note 2)		4.2 V (4.1 V)	8.4 V (8.2 V)	12.6 V (12.3 V)	16.8 V (16.4 V)	21 V (20.5 V)	25.2 V (24.6 V)	
	Charge Current (Note 3)		1/2/4/8 A						
	Rated Power		34 W	68 W	101 W	135 W	168 W	202 W	
	Discharge Current		10 A max.						
	Charging style		3-State (pre-charge/CC/CV)						
	Chemistry (Note 4)		Li-Ion, Li-Polymer						
	Charge Efficiency		<95%	<96%	<97%	<97%	<97%	<97%	
	Pre-Charge Current		(Charge Current)/10						
System	Output Voltage	Normal	$V_{INPUT} - 0.25 V$ (Drop voltage of 250 mV)						
		Backup	$V_{BAT} - 0.1 V$ (Drop voltage of 100 mV)						
Functions	Battery Detection		Yes						
	Battery Charger Status		Charging Battery / Battery Charged / Battery not Detected						
Protections	Input Supply Status		Supply Good / Input Over and Under Voltage / Supply Reversed						
	Input Over Voltage		30 - 55V						
	Reverse Input Supply		-40 V max.						
	Charge Over Current		160% of Rated Charging Current						
			Recovers automatically after fault condition is removed						
	Over Temperature		75°C						
	Battery Over Temperature		Reduce charge current to 50% at 65°C and stop charging at 75°C						
			45°C						
	Battery Short Circuit		Recovers automatically after fault condition is removed						
			Disable charging						
Environment	Battery Over Voltage (Note 2)		4.3 V (4.2 V)	8.6 V (8.4 V)	12.9 V (12.6 V)	17.2 V (16.8 V)	21.5 V (21.0 V)	25.7 V (25.1 V)	
	Shutdown Timer		Disable Charging, recovers automatically after fault condition is removed						
	Operating Temperature		9.3 hours						
	Operating Humidity		-20 to +75°C (see derating curve)						
Mechanical	Storage		0 - 95% (non-condensing)						
	Dimensions		-40°C - 120°C and 0 - 95% (non-condensing)						
	Weight		100 x 51 x 11 mm (w/o connectors)			128 x 51 x 16.5 mm			
Notes			50 g				50 g		
		1. Input current is the sum of the system and charging currents. Charging current is automatically reduced to maintain the input current limit. Other input current limits can be ordered on demand.							
		2. Values in bracket are the charger output voltages when battery lifecycle extender switch is on.							
		3. Charging current options for CC charge state.							
	4. Other battery chemistries on demand.								



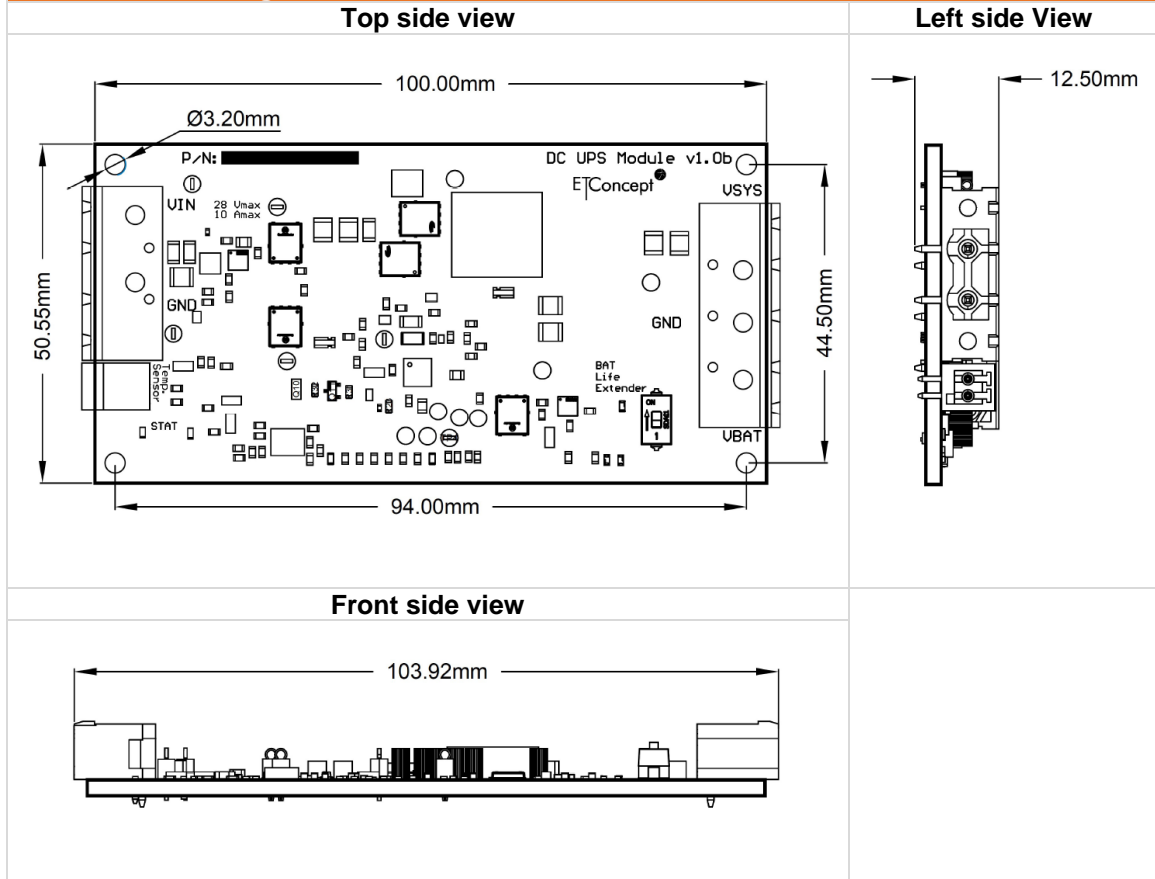
Connectors			
Terminal Number	Input Connector	Temp. Sensor. Conn.	Output
1	DC Input Positive (V_{IN})	Sensor - (GND)	System Positive (V_{SYS})
2	DC Input Negative (GND)	Sensor +	System and Battery Negative (GND)
3	-	-	Battery Positive (V_{BAT})

LED Indicators		
LED State	Power LED	STATUS LED
GREEN	Input supply OK	Battery Charged
RED	Reversed polarity	Battery Charging
RED BLINKING	-	Charger Over Temperature
OFF	Input supply NOK	No Battery detected

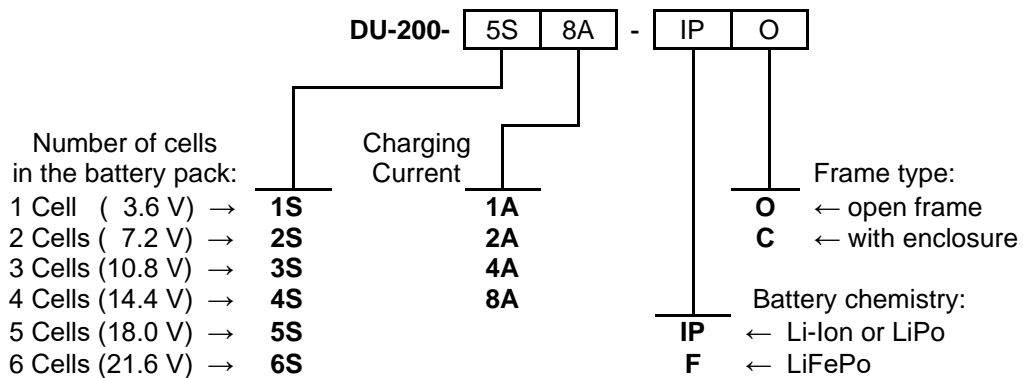
Charge Current settings			
	Set to 1 A for CC zone		Set to 4 A for CC zone
	Set to 2 A for CC zone		Set to 8 A for CC zone

Switch State	Function
ON	Charge the battery pack to 90% of its capacity (e.g. 4.1 V/cell) to increase the battery cycles. LiPo and Li-Ion cells double the cycles (up to 1000 cycles) if not fully charged.
OFF	Charge battery pack to 100% capacity (e.g. 4.2 V/cell). Typically, a LiPo and Li-Ion cells can make 500 cycles.

Mechanical drawings



Part Number Description



Example:

A DC-UPS module for 5 cells Li-Ion battery pack with a charge current of 8 Amperes and without enclosure has the following part number:

DU-200-5S8A-IPO

