

LI-ION BATTERY PACK FOR AGV AND ROBOTS

Impact Clean Power Technology S.A.

We specialise in design and development of the most cutting edge energy storage systems based on lithium-ion cells and self-produced advanced control systems. Our outstanding solutions enable us to produce innovative electric propulsion systems for road, water, and air transport applications.

Areas of focus

The company's primary scope of activity embraces full spectrum of possible applications of modern highly-efficient battery supply systems able to operate in diverse environmental conditions which are exquisite for their reliability and long life.

The major areas of focus include:

- Telecommunication
- Power industry
- Energy storage systems
- Electric buses and trucks
- Mining
- Automation and robotics



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SPECIFICATION

Battery technical parameters	Voltage system	48 V
	Nominal voltage	50.4 V
	Capacity	108 Ah
	Rated energy	5.44 kWh
	Max Charge rate	0.7C Continuous*
	Max Discharge rate	100 A Continuous
	SOC energy metering	<ul style="list-style-type: none"> based on advanced ICPT algorithms available via CAN interface current measurement with LEM sensor
	Data interface	CAN bus
	Configuration of modules	<ul style="list-style-type: none"> parallel operation* up to 8 modules
	Operating conditions	Ambient operating temperature
Humidity		95% non-condensing
Protection class		IP64
Mechanical parameters	Width	365 mm
	Length	329 mm
	Height	248 mm
	Weight	42 kg
	Mechanical interface	four M8 mounting brackets
	Insertion	drop down lifting ears or threaded insert, M6 x 1.25 x 25 mm deep, located on the top of module
	Construction	black powder coated steel tray
	Power Interface	pigtail with APP SB175 connector
Safety	Safe cell design	cells with venting device
	Thermoplastic and non-flammable filling among cells	UL-94V certified thermoplastic material
	ICPT advanced BMS	ICPT BMS system with <ul style="list-style-type: none"> second protection circuits and safety lines, galvanic isolation, multi-level fault detection system
	Cells thermal management	none
	Internal protection	contactor and fuse
Standards	EMC	IEC 61000-4-3
		IEC 61000-4-8
		IEC 61000-6-2
		IEC 61000-6-4
Safety	UN 38.3	
Warranty	12 months	

*consult Impact engineering while designing the batteries to AGV/ SGV

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