



General Specifications

Document details:

Note: Specifications are updated from time to time to reflect changes in developmental process

General Specifications for Quark S Series - LW-S1400-4820			
Version	Date	Authors	Change content
V0	15-01-2024	Pradeep	First release



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Features

- Charger for Lithium ion Batteries
- Universal Voltage input
- Compact
- Rugged housing for All weather and environment operation
- LLC topology for efficient switching
- Multiple safety cutoffs for safe and smooth operation

Specifications

Specification		LW-S2100-7225
Functional	Battery type	Lithium ion
	Vehicle type	Light Electric Vehicles like two wheelers, buggies etc
	Form factor	Compact Portable charger
	Cooling	Forced air convection (Fan)
	Housing	Rugged Aluminium casting
	Communication	CAN 2.0b (Customizable Baud rate)
	Charging profiles	CC-CV, Dynamic with CAN
Dimension/ weight	Dimensions	282 x 168 x 90mm
	Weight	< 3.8 Kg
Electrical/ Performance	AC input Phase	Single
	AC input voltage	100-265 VAC single phase
	AC input frequency	50-60 Hz
	Power Factor	>0.98
	Peak Efficiency	> 92% @ full load, nominal conditions
	AC input max current	<12A
	DC output voltage	Dynamic as per CAN (72V nominal)
	DC output current (Rated)	25 A
General/ Environmental	Operating Temp	-10°C to 45°C
	Storage Temperature	-20°C to 70°C
	Protection	OCP/OVP/OTP/SCP, Reverse Polarity, Thermal Derating (60C)
	IP	IP67



	IK	IK09
	Noise	<45db
	Shock	Shock proof
	Standard	ARAI compatible/ Optional CE
Cable and Connectors	AC cable length	Standard 1.5M, Customizable
	DC cable length	Standard 1.5M, Customizable
	AC connector	Indian 16A/ PRCD, customizable as per requirement
	DC connector	customizable as per requirement
EMC	Harmonics	IEC 61000-3-2
	ESD	Contact $\pm 8KV$
	Surge	Line to Line $\pm 4KV$
Indication	LED indication	Charging - Red: Fully charged - Green, Error - Red blinking