





ESCH05 series Charger



Product overview and application scope :

- Charger integrates active power factor correction (PFC), can achieve zero pollution of the power grid and avoid the impact of large current grid;
- Wide input voltage range AC185V~AC264V available for worldwide requirements, convenient for the power grid fluctuation and vehicles exportation.
- High efficiency, above 93%, while the traditional charger can meet only about 80% efficiency.
- Intelligent temperature compensation function in the charging process, preventing damage to the battery caused by charge-off or charge due, greatly extending the lifespan of the battery.
- Shock resistance treatment made inside makes vibration-proof level up to SAEJ1378 that can fully meet the standard of automobile appliance usage.
- Use the LLC resonance technology, whole charging process working under soft switching condition, with the less heating of the whole machine.

Product features :

- Single Chip Microcomputer (SCM) according to the lead-acid batteries tolerance current capacity, life curve, gas analysis point and other information to complete the full charge of the whole process.
- With the environmental temperature compensation function, to ensure that the temperature of the weather conditions, can automatically resist over-charge and under-charge.
- With pulse charging function, the battery is filled with the premise of ensuring the best life of the battery.
- After three paint processing and dustproof design, the reliability of the operation is improved.
- With digital display function, can display online charging current, voltage, charging time.

Model	ESCH2415	ESCH2420
Dimensions	Long * wide * high 313*188*147(mm)	
Maximum output current (A)	15	20
Maximum power point (W)	450	600
Input voltage (VAC)	100V~264V	
Output voltage (VDC)	lead-acid battery: 31V; VRLA: 29.4V; Customizable	
Applicable battery voltage	24V lead acid battery pack, Customizable	
Maximum efficiency	93%	
Output voltage regulation precision	±1%	
Output current accuracy	±1%	
Working temperature	-30℃~45℃	
Classes of seismic measure	SAEJ 1378	
Cooling mode	Air blast cooling	
Over temperature protection	75℃±5	
Input under-voltage protection (VAC)	90V	
Output over-voltage protection (VDC)	31v±1	
Output over-current protection (A)	>110%* Maximum charge current	
Output short circuit protection	When the output is short circuited, charger shutdown, and automatic recovery after short-circuit solved.	
Battery reverse protection	Charger shutdown and alarm when the wire is connected reversely, it will automatically resume after wiring correctly.	

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