



## Smart Charger



Fully compliant with AIS 156 guidelines



**DRIVEN BY INTELLIGENCE**



**i-VEC<sup>®</sup>**  
DRIVE



- ## Features
- Multi LED indicator for battery status, charging, error, and fault indication
  - Protection against input over/under voltage, and output over/under voltage
  - Protection against reverse polarity, short circuits, and over-temperature
  - Output current is derated linearly when connected to less than 180V<sub>AC</sub> to reduce stress on input circuitry and prevent nuisance breaker trips
  - Output is CV-MCC controlled by Li-ion charging profile
  - Compact design with the forced cool system using DC Fan
  - Dimensions: 250 x 200 x 80 mm
  - Weight: 2.5 kg

## Design Specifications

### Input Specifications

Parameter	Symbol	Value	Unit
AC Input Voltage Range	V <sub>in_range_AC</sub>	110 ~ 285	110 ~ 285
Nominal AC Input Voltage	V <sub>nom_AC</sub>	230	V <sub>rms</sub>
Nominal AC Input Voltage	V <sub>nom_AC</sub>	230	V <sub>rms</sub>
Nominal AC Input Current	A <sub>in_nom</sub>	7.0	A <sub>rms</sub>
AC Line Frequency Range	F <sub>in</sub>	47 ~ 63	Hz
Power Factor (Vin: 120 ~ 285VAC, Output: Full Load)	PF	> 0.98	-
Input Current Total Harmonic Distortion (Vin: 120 ~ 285VAC, Output: Full Load)	iTHD	< 3.0	%
Efficiency (Vin: 180 ~ 285VAC, Output: Full Load)	η	> 92.0	%
Efficiency (Vin: 120 ~ 180VAC, Output: Full Load)	η	< 92.0	%

### Output Specifications

Parameter	Symbol	Value	Unit
Minimum DC Output Voltage	V <sub>o_min</sub>	24.0	V
Maximum DC Output Voltage	V <sub>o_max</sub>	84.3	V
Maximum Output Current	I <sub>o_max</sub>	20.0	A
Maximum Output Power	P <sub>o_max</sub>	1400	W
Output Control Mode	-	MCC-CV Based on Li-ion profile	-