



**VECMOCON**  
TECHNOLOGIES

**Smart Charger**



Fully compliant with **AIS 156** guidelines

**DRIVEN BY INTELLIGENCE**



***i-VEC***  
**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	$V_{in\_range\_AC}$	110 ~ 285	110 ~ 285
Nominal AC Input Voltage	$V_{nom\_AC}$	230	Vrms
Nominal AC Input Voltage	$V_{nom\_AC}$	230	Vrms
Nominal AC Input Current	$A_{in\_nom}$	7.0	Armsz
AC Line Frequency Range	$F_{in}$	47 ~ 63	Hz
Power Factor ( $V_{in}$ : 120 ~ 285VAC, Output: Full Load)	PF	> 0.98	-
Input Current Total Harmonic Distortion ( $V_{in}$ : 120 ~ 285VAC, Output: Full Load)	iTHD	< 3.0	%
Efficiency ( $V_{in}$ : 180 ~ 285VAC, Output: Full Load)	$\eta$	> 92.0	%
Efficiency ( $V_{in}$ : 120 ~ 180VAC, Output: Full Load)	$\eta$	< 92.0	%

### Output Specifications

Parameter	Symbol	Value	Unit
Minimum DC Output Voltage	$V_{0\_min}$	24.0	V
Maximum DC Output Voltage	$V_{0\_max}$	84.3	V
Maximum Output Current	$I_{0\_max}$	20.0	A
Maximum Output Power	$P_{0\_max}$	1400	W
Output Control Mode	-	MCC-CV Based on Li-ion profile	-