

# Beta Series 255K-EHV-PLUS

THREE PHASE INVERTER 5G



## Features

- Efficient**  
 9/12/14 MPPT, 99% maximum efficiency.  
 200% DC/AC ratio.  
 High power tracking density 60 MPPT/MW.  
 Compatible with 500W+ bifacial modules.
- Smart**  
 • SVG night function.  
 Intelligent monitoring of strings. Intelligent I-V curve scanning.  
 Remote firmware upgrade with easy operation.
- Safe**  
 IP66.  
 Built-in PID recovery for better module performance.  
 Fuse free design, safe and maintenance free  
 Globally recognised branded componentry for longer life.
- Economic**  
 Power line communication (PLC) (optional).  
 DC side supports "Y" connector.  
 Supports aluminium wire access to reduce cost.  
 Reserve DC energy storage access.

## Technical Specifications

INPUT DC	
Maximum Input Voltage	1500V
Rated Voltage	1080V
Start-up Voltage	600V
MPPT Voltage Range	580-1500V
Maximum Input Current	12*30A
Maximum Short Circuit Current	12*50A
MPPT Number/Max. Input Strings Number	12/24
OUTPUT AC	
Rated Output Power	255kVA @ 30°C/235kVA @ 40°C/220kVA @ 50°C
Rated Grid Voltage	3/PE, 800V
Grid Voltage Range	640-920V
Rated Grid Frequency	50/60Hz
Maximum Output Current	184.0A
Power Factor	> 0.99 (0.8 leading - 0.8 lagging)
THDi	< 3%
EFFICIENCY	
Maximum Efficiency	99.0%
CEC Efficiency	98.8%

## Technical Specifications

PROTECTION	
DC Reverse-Polarity Protection	Yes
Short Circuit Protection	Yes
Output Over Current Protection	Yes
Surge Protection	DC Type II/AC Type II
Grid Monitoring	Yes
Anti-Islanding Protection	Yes
Temperature Protection	Yes
Strings Monitoring	Yes
I/V Curve Scanning	Si
Night Time SVG Function	Yes
Integrated PID Recovery	Yes
Integrated DC Switch	Yes
GENERAL DATA	
Dimensions (W*H*D)	1125*770*384 mm
Weight	113kg
Topology	Transformerless
Self Consumption (Night)	< 2W
Operating Ambient Temperature Range	-25 ~ +60°C
Relative Humidity	0-100%
Ingress Protection	IP66
Cooling Concept	Intelligent redundant fan-cooling
Maximum Operation Altitude	4000m
Grid Connection Standard	EN50549, G99, AS4777.2, VDE0126, IEC61727, VDE4110, CEA 2019
Safety/EMC Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4
FEATURES	
DC Connection	MC4 connector
AC Connection	OT terminal (maximum 300 mm <sup>2</sup> )
Display	LCD
Communication	RS-485, Optional: PLC

Product specifications are subject to change without further notice.

