



# VL SERIES

THREE-PHASE **INVERTER**



## PV STRING MONITORING

Real time PV string current sampling and monitoring, with string performance analysis and report abnormal condition capability.



## PID RECOVERY

Improving panel efficiency over life time and prevents further degradation with auto detection and adjustment.



## AFCI FUNCTION

Providing safe and reliable protection against arc, and accurate and fast response to ensure man and device safety.



## IP66 RATED

Reliable performance under extreme environment and temperature condition, extending product life with minimum effort.

## REFINED – POWERFUL – FLEXIBLE

The VL Series inverter range is aimed at three-phase domestic commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The three-phase VL Series inverter options range from 15kW to 37.5kW.

15kW ...>>> 37.5kW



For more about the Fox ESS range of three-phase inverters, visit:

[www.fox-ess.com](http://www.fox-ess.com)



TECHNICAL SPECIFICATIONS

MODEL	VL15	VL20	VL25	VL30	VL37.5
INPUT(PV)					
Max. Input Voltage [V]			1100		
Start-up Input Voltage [V]			250		
Rated Input Voltage [V]			360		
MPPT Operating Voltage Range [V]			200 ~ 1000		
MPPT Voltage Range [V] (Full load)			320 ~ 800		
Max. Input Current per MPPT [A]			40		
Max. Short-circuit Current [A]			50		
No. of MPP Trackers			4		
Strings per MPP Tracker			2		
OUTPUT(AC)					
Nominal Output Power [kW]	15	20	25	30	37.5
Nominal Output Apparent Power [kVA]	15	20	25	30	37.5
Max. AC Active Power [kW]	16.5	22	27.5	33	37.5
Max. AC Apparent Power [kVA]	16.5	22	27.5	33	37.5
Nominal Output Voltage [V]			220, 3W+N+PE or 3W+PE		
Nominal AC Grid Frequency [Hz]			50/60		
AC Grid Frequency Range [Hz]			45 ~ 55 / 55 ~ 65		
Max. Output Current [A]	43.4	57.8	72.2	86.7	98.5
Output Power Factor			0.8 leading to 0.8 lagging		
THDi [%]			<3 at Nominal Output Power		
EFFICIENCY					
European Efficiency [%]			97.6		
Max. Efficiency [%]			98.1		
PROTECTION					
DC Switch			YES		
DC Reverse Polarity Protection			YES		
AC Short-circuit Protection			YES		
AC Overcurrent Protection			YES		
Insulation Monitoring			YES		
Residual Current Monitoring			YES		
PV String Current Monitoring			YES		
Surge Protection			DC Type II / AC Type II		
PID Recovery			YES		
AFCI			Optional		
Grid monitoring			YES		
Night SVG			YES		
Anti-Corrosion			C5		
GENERAL DATA					
Dimensions (W*H*D) [mm]			640*430*243		
Weight [kg]			50		
Cooling Method			Smart air cooling / FAN		
Max. Operating Altitude [m]			4000		
Operating Temperature Range [°C]			-30 ~ 60		
Humidity [%]			0 ~ 100 (No Condensation)		
Ingress Protection			IP66		
Communication			RS485/USB/Wi-Fi+LAN/4G		
Display			LED, Wi-Fi+APP		