



# V 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 V 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 V Series inverter options range from 30kW to 75kW.

30kW ...>> 75kW



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

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



# TECHNICAL SPECIFICATIONS

MODEL	V30	V33	V36	V40	V50	V60	V75
<b>INPUT(PV)</b>							
Max. Recommended DC Power [kW]	60	66	72	80	100	120	150
Max. Input Voltage [V]				1100			
Start-up Input Voltage [V]				250			
Rated Input Voltage [V]				600			
MPPT Operating Voltage Range [V]				200 ~ 1000			
MPPT Voltage Range [V] (Full load)				550 ~ 800			
Max. Input Current per MPPT [A]				40			
Max. Short-circuit Current [A]				50			
No. of MPP Trackers	3	3	4	4	4	6	6
Strings per MPP Tracker				2			
<b>OUTPUT(AC)</b>							
Nominal Output Power [kW]	30	33	36	40	50	60	75
Nominal Output Apparent Power [kVA]	30	33	36	40	50	60	75
Max. AC Active Power [kW]	33	36.3	39.6	44	55	66	75
Max. AC Apparent Power [kVA]	33	36.3	39.6	44	55	66	75
Nominal Output Voltage [V]	380/400, 3W+N+PE						
Nominal AC Grid Frequency [Hz]	50/60						
AC Grid Frequency Range [Hz]	45 ~ 55 / 55 ~ 65						
Max. Output Current [A]	50.2	55.2	60.2	66.9	83.6	100.3	114
Output Power Factor	0.8 leading to 0.8 lagging						
THDi [%]	<3 at Nominal Output Power						
<b>EFFICIENCY</b>							
European Efficiency [%]	98.4	98.4	98.4	98.4	98.1	98.1	98.1
Max. Efficiency [%]	98.7	98.7	98.7	98.7	98.5	98.5	98.5
<b>PROTECTION</b>							
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			
Anti-islanding Protection				YES			
Grid monitoring				YES			
Night SVG				YES			
Anti-Corrosion				C5			
<b>GENERAL DATA</b>							
Dimensions (W*H*D) [mm]	640*430*243						
Weight [kg]	41	41	42	42	50	50	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						
Pollution Degree	PD 2 (inside), PD 3 (outside)						
Protective class	Class I						
Over Voltage Category	II (DC), III (AC)						
Communication	RS485/USB/Wi-Fi+LAN						
Display	LED, Wi-Fi+APP						
<b>STANDARD COMPLIANCE</b>							
Grid Regulation	EN50549-1						