



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



TECHNICAL SPECIFICATIONS

MODEL	V30	V33	V36	V40	V50	V60	V75
INPUT(PV)							
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						
OUTPUT(AC)							
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						
EFFICIENCY							
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
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						
Anti-islanding Protection	YES						
Grid monitoring	YES						
Night SVG	YES						
Anti-Corrosion	C5						
GENERAL DATA							
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/4G						
Display	LED, Wi-Fi+APP						
STANDARD COMPLIANCE							
Grid Regulation	EN50549-1						