DATASHEET

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 detecation 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			