

# X3-FORTH

THREE PHASE INVERTER



## PRODUCT SPECIFICATIONS



### Maximum Efficiency

Maximum Efficiency up to 99%



### MPPT Voltage Range

180-1000Vdc MPPT Voltage Range



### IP66 Protection

IP66 protection level



### Remote Access

Remote setting and upgrading



### 24h Monitoring

24 hours operation monitoring



### Multiple MPPTs

Maximum 12 MPPTs, 2 strings per MPP tracker



### Smart Air Cooling

Smart Air Cooling Technique



### Export Power Control

Built-in export power control



### Heat Dissipation

Heat Dissipation Technology



# X3-FORTH (THREE PHASE)

X3-FTH-75K    X3-FTH-80K    X3-FTH-100K    X3-FTH-110K    X3-FTH-120K    X3-FTH-125K    X3-FTH-136K-MV    X3-FTH-150K-MV

## DC INPUT

Max. PV array input power [kWp]	120	120	150	165	180	188	204	225
Max. PV input voltage [V]	1100							
Nominal input voltage [V]*	580/600	580/600	580/600	580/600	580/600	580/600	730/785	730/785
Startup voltage [V]	200							
MPP tracker voltage range [V]	180-1000							
No. of MPP trackers	9	9	9	9	12	12	12	12
Strings per MPP tracker	2							
Max. PV input current per MPPT [A]	32							
Isc PV Array Short Circuit current per MPPT [A]	46							

## AC OUTPUT

Rated AC output power [kW]	75	80	100	110	120	125	136	150
Rated AC output current [A]*	113.7/108.7	121.3/116	151.6/145	166.7/159.5	181.9/174	189.4/181.2	157.1/145.4	173.2/160.4
Max. AC output apparent power [kVA]	75	88	110	121	132	132	149.6	165
Max. AC output current [A]*	113.7/108.7	133.4/127.6	166.7/159.5	183.4/175.4	200/191.3	200/191.3	172.8/160	190.6/176.5
Nominal AC voltage [V]	220/380, 230/400 3/N/PE, 3/PE						500/540, 3P3W+PE	
AC voltage range [V]**	304 ~ 480						425 ~ 594	
Nominal AC frequency/AC frequency range [Hz]**	50/60; ±5							
THDi (Rated power) [%]	<3							
Power Factor range	0.8 leading ~ 0.8 lagging							

## SYSTEM DATA

MPPT efficiency [%]	99.9							
Max. efficiency [%]	98.6	98.6	98.6	98.6	98.6	98.6	99.0	99.0
Ingress protection	IP66							
Operating ambient temperature range [° C]	-30~+60 (Derating above 45)							
Max. operation altitude [m]	4000 (Derating above 3000)							
Relative humidity [%]	0~100							
Dimensions [W×H×D] [mm]	985×660×3275							
Weight [kg]	83	83	83	83	87	87	87	87
Cooling concept	Smart fan cooling							
Communication interfaces	RS485 / USB / DRM / PLC(Optional)							
Optional monitoring dongle	Pocket WiFi/LAN/4G							
Display	LCD(16x2, optional)/LEDx4							

## PROTECTION

Over/under voltage protection	YES
DC isolation protection	YES
Grid monitoring	YES
DC injection monitoring	YES
Residual current detection	YES
Anti-islanding protection	YES
String fault detection	YES
SPD (DC/AC)	Type II / Type II
Arc-fault circuit interrupter(AFCI)	Optional
AC terminals over temperature detection	YES
AC auxiliary power supply(APS)	Optional
Power line communication(PLC)	Optional

## STANDARD

Safety	IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004
EMC	IEC/EN 61000; NB/T 32004
Certification	EN 50549; AS4772; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004

\* The two data refer to different grid voltage 220V/230V or 500V/540V

\*\* The AC voltage and the frequency range may vary from different country codes