

NEW FROM SOLAX

X3-FORTH



X3-FORTH

80kW/100kW/110kW

120kW/125kW/136kW/150kW

Features

More energy harvest

- Maximum efficiency up to 99%
- 180~1000Vdc MPPT voltage range
- Maximum 12 MPPTs, 2 strings per MPP tracker
- 150% PV oversizing input, 110% overloading output
- Maximum 32A MPPT current, 16A per string

Safety & Reliability

- IP66 protection level
- AFCI protection (Optional)
- AC terminal temperature detection
- Both AC & DC SPDs (Type II) inside, Type I SPD is optional

Intelligence for easy maintenance and economy

- Built-in export power control
- Remote setting and upgrading
- 24 hours operation monitoring
- Smart I-V Curve Diagnosis supported
- SVG functional supported (Optional)
- Aluminium AC cable connection available
- Power line communication (PLC)(Optional)
- Fuse free design with smart string current monitoring
- Smart air cooling technique results in long lifetime of fans
- Advanced heat dissipation technology makes the system more than 5% lighter and smaller

Contact Us for More Information

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X3-FORTH (THREE PHASE)

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 | 150 | 165 | 180 | 188 | 204 | 225 |
| Max. PV input voltage [V] | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Startup voltage [V] | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| Nominal input voltage [V] | 580/600 | 580/600 | 580/600 | 580/600 | 580/600 | 730/785 | 730/785 |
| MPP tracker voltage range [V] | 180~1000 | 180~1000 | 180~1000 | 180~1000 | 180~1000 | 180~1000 | 180~1000 |
| No. of MPP trackers | 9 | 9 | 9 | 12 | 12 | 12 | 12 |
| Strings per MPP tracker | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Max. input current per MPPT [A] | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Max. short circuit current per MPPT [A] | 46 | 46 | 46 | 46 | 46 | 46 | 46 |

AC OUTPUT

| | | | | | | | |
|-------------------------------------|--------------------------------|-------------|-------------|-----------|-------------|-----------------|-----------------|
| Nominal AC output power [kW] | 80 | 100 | 110 | 120 | 125 | 136 | 150 |
| Nominal AC output current [A] | 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] | 88 | 110 | 121 | 132 | 132 | 149.6 | 165 |
| Max. AC output current [A] | 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 | 500/540,3P3W+PE |
| Nominal grid frequency [Hz] | 50/60 | | | | | | |
| Displacement power factor | 0.8 leading-0.8 lagging | | | | | | |
| THDi (Rated power) [%] | <3 | | | | | | |

SYSTEM DATA

| | | | | | | | |
|----------------------------------|--|------|------|------|------|------|------|
| MPPT efficiency [%] | 99.9 | | | | | | |
| Max. efficiency [%] | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 99.0 | 99.0 |
| Ingress protection | IP66 | | | | | | |
| Operating temperature range [°C] | -25~+60 (Derating at 45) | | | | | | |
| Max. operation altitude [m] | 4000 (Derating above 3000) | | | | | | |
| Relative humidity [%] | 0~100 | | | | | | |
| Dimensions[WxHxD] [mm] | 985x660x327.5 | | | | | | |
| Weight [kg] | 83 | 83 | 83 | 87 | 87 | 87 | 87 |
| Cooling concept | Smart fan cooling | | | | | | |
| Communication interfaces | RS485 / (Optional: Pocket Wifi/4G) / Bluetooth / USB | | | | | | |

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 |
| Output terminals over temperature detection | YES |

STANDARD

| | |
|---------------|---|
| Safety | IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004 |
| EMC | IEC/EN 61000; NB/T 32004 |
| Certification | EN 50549; AS4777.2; VDE4105; IEC 61727; IEC 62116; IEC 61683; IEC 60068; EN 50530; NB/T 32004 |