

PR-DY-INS3XK-2M3P

Three phase string inverter 30/33/35/36KW

PROSE



Photo for Reference

Part number

PR-DY-INS3XK-2M3P	Three phase String Inverter with max. PV input power of 30000W/33000/35000/36000W, 2MPPT
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Features

2 MPP trackers, Max. efficiency up to 98.6%
Zero export application, VSG application
String intelligent monitoring (optional)
Wide output voltage range
Anti-PID function (Optional)

PV String Input Data

Max. PV Input Power (kW)	39	42.9	45.5	46.8
Max. PV Input Voltage (V)	1100			
Start-up Voltage (V)	250			
MPPT Voltage Range (V)	200-1000			
Rated PV Input Voltage (V)	600			
Max. Operating PV Input Current (A)	40+40			
Max. Input Short Circuit Current (A)	60+60			

No. of MPP Trackers/ No. of Strings MPP Tracker	2/3+3
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AC Output Side

Rated AC Output Active Power (kW)	30	33	35	36
Max. AC Output Apparent Power (kVA)	33	36.3	38.5	39.6
Rated AC Output Current (A)	45.5/43.5	50/47.8	53/50.7	54.5/52.2
Max. AC Output Current (A)	50/47.9	55/52.6	58.3/55.8	60/57.4
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un			
Grid Connection Form	3L/N/PE			
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Total Current Harmonic Distortion THDi	<3%			
DC Injection Current	<0.5%In			

Efficiency

Max. Efficiency	98.6%
European Efficiency	98.1%
MPPT Efficiency	> 99%

General Data

Operating Temperature Range (°C) ³	-25 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	4000
Noise (dB)	≤60
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	330×572×206 (Excluding Connectors and Brackets)
Weight (kg)	28.7

Type of Cooling	Intelligent Air Cooling
Communication Interface	RS485/RS232
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

Equipment Protection

DC Reverse Polarity Protection	YES
AC Output Overcurrent Protection	YES
AC Output Overvoltage Protection	YES
AC Output Short Circuit Protection	YES
Thermal Protection	YES
Insulation Impedance Detection	YES
DC Component Monitoring	YES
Anti-islanding Protection	YES
Residual Current Detection	YES
Surge Protection Level	TYPE II(DC), TYPE II(AC)
DC Switch	YES

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