Fronus SOLAR ENERGY | SOLAX POWER

Pakistan's First 15kW Inverter

X3 GENKI

IP65 **10kW / 15kW** **Three Phase Inverter**



Pakistan's only inverter with

30KW MPPT

15kW for Load & 15kW for Battery Charging

Unbalanced Output
Can Support Unbalanced Output

200% Overload Tolerance
Can Tolerate 200% Overload For 10 Sec

<6ms Switch Over Time
Single unit UPS-level switchover time 3ms

Stand Alone Inverter
Can Work With & Without Battery

SCAN QR CODE
For More Details

Fronus SOLAR ENERGY بھردے اجالا زندگی میں ®

SOLAX POWER

X3 GENKI

DATA SHEET

DC INPUT	X3-GENKI-10kW	X3-GENKI-15kW
Max. PV Array [Wp]	20000	30000
Max. PV Input Power [W]	20000	30000
Max. PV Input Voltage [V]	1000	
Start Output Voltage [V]	150	
Nominal Input Voltage [V]	640	
MPPT Voltage Range [V]	160 ~ 950	
No. of MPPT / Strings per MPPT	2(2 / 1)	2(2 / 2)
Max. Input Current [A]	36 / 18	36 / 36
Max. Short Circuit Current [A]	50 / 25	50 / 50
BATTERY DATA		
Battery Type	Lithium / Lead-Acid	
Battery Voltage Range [V]	40 ~ 60	
Nominal Battery Voltage [V]	48	
Max. Charging Voltage [V]	≤60(Adjustable)	
Max. Charging / Discharging Current [A]	250	300
Charging Strategy for Li-ion Battery	Self Adaption to BMS	
Charging Strategy for Lead Acid Battery	3 Stages Curves	
Temperature Sensor	Yes	
EPS OUTPUT (WITH BATTERY)		
Nominal Output Power [W]	10000	15000
Peak Apparent Power[1] sun+BAT [W, s]	2 times of rated power , 10	
Nominal AC Output Frequency [Hz]	50 / 60	
Nominal AC Output Current [A]	14.50	21.70
Nominal AC Voltage	220 / 380, 230/400	
Switch Time	< 6ms	
THDv (linear load) [%]	< 2%	
AC INPUT(GEN)		
Nominal GEN Voltage, Frequency	220 / 380, 230 / 400 a.c. V, 50/60Hz	
Nominal GEN Input Power	10000W	15000W
Nominal GEN Input Current	29A	
SYSTEM DATA		
MPPT Efficiency [%]	> 99.9	
Max. Efficiency [%]	97.6	
Euro. Efficiency [%]	97.0	
PROTECTION DECIVE		
PV String Input Reverse Polarity Protection	Yes	
Insulation Resistor Detection	Yes	
Residual Current Monitoring Unit	Yes	
Output Over Current Protection	Yes	
Output Short Protection	Yes	
Output OVer Voltage Proctection	Yes	
Surge Protection	AC Type II / DC Type II	
Battery Teminal Temp Protection	Yes	
ENVIORNMENT LIMIT		
Degree of Protection	IP65	
Operating Temperature Range [°C]	-25 ~ +60 (derating above +45)	
Relative Humidity [%]	0 ~ 100%	
Max. Operation Altitude [m]	< 3000	
Storage Temperature range [°C]	-25 ~ +70	
Noise Emission(typical) [dB]	< 55	
GENERAL		
Dimensions(WxHxD) [mm]	520 x 705 x 258	
Net Weight [kg]	44.6	
Cooling Concept	FAN	
Topology	Transformerless for PV Side / HF for Battery Side	
HMI / Communication Interfaces	LED + LCD / CAN, RS485, WiFi / LAN / 4G(Optional) / NTC	
Mounting	Wall Bracket	
STANDARD		
Safety	EN IEC 62109-1 /-2, EN IEC62040	