



UNION GROUP INDUSTRIES

Renewable Energy, Air Compressors, Textile Machinery and Auxiliaries

SINGLE PHASE HYBRID INVERTER 8-12 kW

NEW
ARRIVAL

GERMAN
QUALITY
GURANTEE

COMPATIBLE
WITH SMART
BATTERY BACKUP

SMART ENERGY
MANAGEMENT,
MAXIMUM SAVINGS

FUTURE-READY ENERGY
STORAGE SOLUTION



AI EMS
For Electricity Pricing
and Automation.



PARALLEL PV
Max. 6 Parallel Stacking.



Max. 1.5
1.5 Times PV Oversize.



100%
Supports 100%
Unbalance Load.



Max. 240A
Maximum Charge/Discharge
Current 240A



UPS Function
A Switch Time of Less Than
10ms for Uninterrupted
Power Supply.



Input
Support Generator.



PV Array



Hybrid Inverter



Meter



Grid
or
Generator



Storage Battery



Smart Load



Critical Load



Load

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Technical Data	UGI-8-SLP	UGI-10-SLP	UGI-12-SLP
PV Input			
Max. Input Power (kW)	12	15	18
Max. PV Voltage (V)		550	
MPPT Range (V)		80 - 500	
Full MPPT Range (V)	150 - 500	190 - 500	230 - 500
Normal Voltage (V)		360	
Startup Voltage (V)		100	
Max. Input Current (A)		18.5 x 3	
Max. Short Current (A)		26 x 3	
No. of MPP Tracker / No. of PV String		3 / 1+1+2	
Battery Port			
Max. Charge/Discharge Power (kW)	8.0	10	
Max. Charge/Discharge Current (A)	200	240	240
Batery Normal Voltage (V)		51.2	
Batery Voltage Range (V)		40 - 60	
Batery Type		Li-ion / Lead-acid etc.	
AC Grid & Diesel Gen (Optional)			
Max Continuous Curent (A)	37	46	55
Max Continuous Power (kVA)	8.0	10	12
Nominal Grid Current (A)	36.4 / 34.8	45.5 / 43.5	54.6 / 52.2
Nominal Grid Voltage (V)		198 to 242 @ 220 / 207 to 253 @ 230	
Nominal Grid Frequency (Hz)		50 / 60	
Power Factor		1 default (adjustable from 0.8 leading to 0.8 lagging)	
Current THD (%)		< 3	
AC Load Output			
Max Continuous Curent (A)	37	46	55
Max Continuous Power (kVA)	8	10	12
Max Peak Current (A) (10min)	55.5	69	82.5
Max Peak Power (kVA) (10min)	12	15	18
Nominal AC Voltage L-N (V)		220 / 230	
Nominal AC Frequency (Hz)		50 / 60	
Switching Time (ms)		Seamless	
Voltage THD (%)		< 3	
Efficiency			
European Efficiency (%)		98.1	
Max. Efficiency (%)		96.8	
Protection			
PV Reverse Polarity Protection		Yes	
Bat. Reverse Polarity Protection		Yes	
Over Current/Voltage Protection		Yes	
Anti-Islanding Pottection		Yes	
AC Short Circuit Protection		Yes	
Residual Current Detection		Yes	
Ground Fault Monitoring		Yes	
PV Arc Detection		Yes	
Enclosure Protect Level		IP66	
General Data			
Dimensions (W x H x D, mm)		785 x 614 x 258	
Weight (kg)		51	
Topology		Transformerless	
Cooling		Intelligent Fan	
Relative Humidity		0 - 100 %	
Operating emperature Range (°C)		- 25 to 60 (Deratng 45)	
Operating Altitude (m)		< 4000	
Standby Consumption (W)		< 30	
Mounting		Wall Bracket	
Communication with SD		SUNSPEC	
Display & Communication Interfaces		LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G, Sunspec	
Certification & Apovals	NRS097, G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2		
EMC	EN61000-6-2, EN61000-6-3		