



UNION GROUP INDUSTRIES

Renewable Energy, Air Compressors, Textile Machinery and Auxiliaries

THREE PHASE HYBRID INVERTER 6-30 KW

GERMAN
QUALITY
GURANTEE

NEW
ARRIVAL

COMPATIBLE
WITH SMART
BATTERY BACKUP



SMART ENERGY
MANAGEMENT,
MAXIMUM SAVINGS

FUTURE-READY ENERGY
STORAGE SOLUTION



AI EMS
For Electricity Pricing
and Automation.



Battery
Supports Sodium metal
chloride Batteries.



WIDE-Range
Voltage Range (150-800V).



100% UNBALANCE
Supports 100%
Unbalance Load.



Max. 40A
String Current up to 40A.



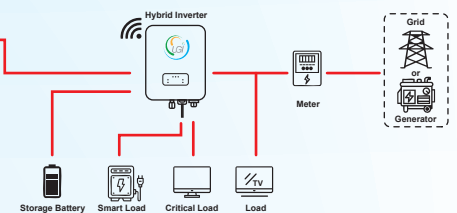
UPSFunction
Switch Time <10ms



Input
Support Generator



PV Array



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Technical Data		UGI-6-HTP	UGI-8-HTP	UGI-10-HTP	UGI-12-HTP	UGI-15-HTP	UGI-20-HTP	UGI-25-HTP	UGI-30-HTP
PV Input									
Max. DC Input Power (kW)	9	12	15	18	22.5	30	37.5	45	
Max. PV Voltage (V)	1000								
Rated DC Input Voltage (V)	620								
DC Input Voltage Range (V)	150 -1000								
MPPT Voltage Range (V)	150 - 850								
Full MPPT Range(V)	500 - 850								
Start-up Voltage (V)	160								
Max. DC Input Current (A)	20 x 2			20 x32		32 x 2		40 x 2	
Max. Short Current(A)		30 x 2			30 + 48	48 x 2		60 x 2	
No. of MPPT Tracker / Strings		2/2			2/3		2/4		
Battery Port									
Batery Nominal Voltage (V)	250	300	400	450	500	500	500	550	
Batery Voltage Range (V)	150 - 800								
Max. Charge/Discharge Current (A)	30	30	30	30	50	50	60	60	
Max. Charge/Discharge Power (kW)	6	8	10	12	15	20	25	30	
Charging Curve	3 Stages								
Compatible Battery Type	Li-ion / Lead-acid / Sodium metal chloride battery								
AC Grid									
Nominal AC Output Power (kW)	6	8	10	12	15	20	25	30	
Max. AC Input/Output Power (kVA)	9/ 6.6	12/ 8	15 / 11	18 / 13.2	22.5 / 1 6.5	30 / 22	37.5 / 27.5	45 / 33	
Max. AC Output Current (A)	10.5	13.5	17	21.5	27	32	40	48	
Nominal AC Voltage (V)	230 / 400								
Nominal AC Frenquency (Hz)	50 / 60								
Power Factor	1 (- 0.8 -0.8 adjustable)								
Current THD (%)	< 3 %								
AC Load Output (Back-up)									
Nominal Output Power (kVA)	6	8	10	12	15	20	25	30	
Nominal Output Voltage (V)	230 / 400								
Nominal Output Frequency (Hz)	50 / 60								
Nominal Output Current (A)	8.7	11.6	14.5	17.4	21.8	29	36.3	43.5	
Peak Output Power	6.6kVA, 60s	8.8kVA, 60s	11kVA, 60s	13.2kVA, 60s	16.5kVA, 60s	22kV A, 60s	27.5kV A, 60s	33kV A, 60s	
THDV (with linear load)	< 3 %								
Switching Time (ms)	< 10								
Efficiency									
Europe Efficiency	97.50 %					97.80 %	98.00 %	98.10 %	
Max. Efficiency	98.30 %						98.50 %		
Batery Charge/Discharge Efficiency	98.00 %								
Protection									
Reverse Polarity Protection	Yes								
Over Current / Voltage Protection	Yes								
Anti-islanding Pottection	Yes								
AC Short-circuit Protection	Yes								
Leakage Current Detection	Yes								
Ground Fault Monitoring	Yes								
Grid Monitoring	Yes								
Enclosure Protect Level	IP66								
AC/DC surge protection	Type II								
General Data									
Dimensions (W x H x D, mm)	558 x 535 x 260 mm								
Weight (kg)	29kg					36kg			
Topology	Transformerless								
Cooling Concept	Intelligent Fan								
Relatively Humidity	0 - 100 %								
Operating emperature Range (°C)	- 25 to 60 °C								
Operating Altitude (m)	< 4000								
Standby Consumption (W)	< 5								
Display & Communication Interfaces	LCD, LED, RS485 , CAN, WI-Fi, GPRS , 4G, Sunspec								
Certification & Apovals	NR S097, G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2, IEC62477-1								
EMC	EN61000-6- 2, EN61000-6-3								