



UNION GROUP INDUSTRIES

Renewable Energy, Air Compressors, Textile Machinery and Auxiliaries

SINGLE PHASE HYBRID INVERTER

2-6 KW

NEW
ARRIVAL

GERMAN
QUALITY
GURANTEE

SMART ENERGY
MANAGEMENT,
MAXIMUM SAVINGS

COMPATIBLE
WITH SMART
BATTERY BACKUP



FUTURE-READY ENERGY
STORAGE SOLUTION



Max. 120A
Max. Charge/Discharge
Current 120A



Max 1.5
1.5 Times PV
Oversize



2 MPPT
CHANNELS
Up to 2 MPPT Channels



<10 ms
UPS FUNCTION
Switch Time < 10ms



PARALLEL
Max. 6 Parallel Stacking



PV Array



Hybrid Inverter



CT



Grid
or
Generator



Storage Battery



Smart Load



Critical Load



Load

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Technical Data	UGI-2-SLP	UGI-3.6-SLP	UGI-6-SLP
PV Input			
Max. Input Power (kW)	3.0	5.4	9
Max. PV Voltage (V)		550	
MPPT Range (V)		80 - 500	
Full MPPT Range (V)	120 - 500	210 - 500	170 - 500
Normal Voltage (V)		360	
Startup Voltage (V)		100	
Max. Input Current (A)	18.5 x 1		18.5 x 2
Max. Short Current (A)	26 x 1		26 x 2
No. of MPP Tracker / No. of PV String	1 / 1		2 / 2
Battery Port			
Max. Charge/Discharge Power (kW)	2.0	3.6	6.0
Max. Charge/Discharge Current (A)	50	80	120
Battery Normal Voltage (V)		51.2	
Battery Voltage Range (V)		40 - 60	
Battery Type	Li-ion / Lead-acid etc.		
AC Grid			
Max Continuous Current (A)	10.0	17.0	28.0
Max Continuous Power (kVA)	2.0	3.6	6.0
Nominal Grid Current (A)	9.1 / 8.7	16.4 / 15.7	27.3 / 26.1
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 Current (A)	10.0	17.0	28.0
Max Continuous Power (kVA)	2.0	3.6	6.0
Max Peak Current (A) (10min)	13.7 / 13.1	24.6 / 23.5	41.1 / 39.2
Max Peak Power (kVA) (10min)	3.0	5.4	9.0
Nominal AC Voltage L-N (V)	220 / 230		
Nominal AC Frequency (Hz)	50 / 60		
Switching Time (ms)	Seamless		
Voltage THD (%)	< 3		
Efficiency			
CEC Efficiency (%)	97.0		
Max. Efficiency (%)	97.6		
PV to Bat. Efficiency (%)	98.1		
Bat. between AC Efficiency (%)	96.8		
Protection			
PV Reverse Polarity Protection	Yes		
Over Current/Voltage Protection	Yes		
Anti-Islanding Protection	Yes		
AC Short Circuit Protection	Yes		
Residual Current Detection	Yes		
Ground Fault Monitoring	Yes		
Insulation Resister Detection	Yes		
PV Arc Detection	Yes		
Enclosure Protect Level	IP66 / NEMA4X		
AC/DC surge protection	Type II		
General Data			
Dimensions (W x H x D, mm)	370 x 535 x 192		
Weight (kg)	17		20.5
Topology	Transformerless		
Cooling	Intelligent Fan		
Relative Humidity	0 - 100 %		
Operating Temperature Range (°C)	- 25 to 60		
Operating Altitude (m)	< 4000		
Standby Consumption (W)	< 10		
Mounting	Wall Bracket		
Communication with RSD	SUNSPEC		
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G, Sunspec		
Certification & Approvals	NRS097, G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2, IEC62477-1		
EMC	EN61000-6-2, EN61000-6-3		