



SOLAK INVERTER

HYBRID INVERTER

1KVA ~ 6KVA

 Mission Critical
I.T & Domestic UPS

SOLAK HYBRID INVERTER



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Pure Sine Wave Output

General Features:

- Adjustable voltage-transfer points & charging voltage
- Automatic restart of load after inverter shutdown
- Smart AVR function (Two buck I boost modes)
- Wide input range 140V-310V for 230V area; or 70V-155V for 115V area.
- Generator compatible & Cold-start capable
- Full function of LCD display (LED optional) with Audible alarm
- Smart battery management with big charger; Wet battery compatible.
- Intelligent double stages of charging control; Adjustable charging current by DIP for different battery.
- Thermal control cooling fan
- With DC/AC Isolation
- Support Solar panel input for charger (MPPT, Optional)

With DC/AC
Isolation

Built-in
Transformer

SOLAK HYBRID INVERTER

SPECIFICATION

Output					
MODEL	1KVA	2KVA	3KVA	5KVA	6KVA
Output Voltage	200V/220V/230V/240V Selectable				
Voltage Waveform	Pure Sine wave				
Crest Factor	3 : 1				
Output Frequency (Synchronized to Mains)	Auto Select for 50/60Hz : 47Hz-55Hz for 50Hz nominal: 56Hz ~ 65Hz for 60Hz nominal				
Regulation (Nominal)	±10% typical of nominal voltage				
Regulation (Battery mode)	±3% of selected output voltage (adjustable with the remote set-up software)				
Transfer time	Blackout 3ms typical : Brownout 1ms typical : Battery mode to Normal mode : 1ms typical				
Input					
Nominal Voltage	200V/220V/230V/240V Selectable				
Input Frequency	47Hz-65Hz, 50/60Hz auto-sensing				
Efficiency (Normal mode)	97%				
Voltage Range	140V-310V				
Battery					
Battery type	Lead-Acid 50Ah-500Ah (Recommended)				
Voltage	12VDC	24VDC	48VDC	48VDC	48/96VDC
Typical backup time	No Limit				
Charging method	Smart pulse charging with two charging modes: Quick charging when battery is not fully charged, trickle charging when battery is 90% fully charged.				
Maximum charging current	20A	30A	45A	45A	60A
Average charging voltage for each battery	Quick charging mode: 14V maximum : Trickle charging mode: 13.5V (adjustable with the remote set-up software)				
Monitoring	Smart monitoring & warning for failed battery or open-circuit battery : Auto-detection each time when power on or every 6 days.				
Solar Charger (optional)					
Rating voltage	12V/24V/36V/48V				
DC input range	12V model:12-21Vdc : 24V model:24-42Vdc : 36V model:36-63Vdc : 48V model:48-84Vdc				
Charging method	Constant voltage with current limiting by PWM control/MPPT control				
Charging voltage	12V model:13.5Vdc : 24V model: 27.0Vdc : 36V model: 40.5Vdc : 48V model: 54.0Vdc				
Power rating	12V model:500W (13.5Vdc @ 37A) : 24V model:1000W (27.0Vdc @ 37A): 36V model:1000W (40.5Vdc @ 25A): 48V model:1000W (54Vdc@18.5A)				
Communications & Management					
Standard Interface port	UPSilon2000 compatible; optional for RS232 and/or USB.				
Optional Interface port	RJ45 (Surge protection), DB9, SNMP (external type).				
Control panel	LCD or LED Selectable				
Audible alarm	Alarm on battery: Low battery & Battery over voltage : Alarm on abnormal operation: Over load, Short-Circuit & Over heat.				
Green mode function (Auto-shut-off in blackout)	1% to 14% of full load (adjustable by using the remote set-up software). The default setting is OFF.				
Coolin fan control	Auto on/off, controlled b temperature & o eration mode.				
LC Features & Protection					
Output	Over load alarm level 100%- 120% : Over load shutdown level 120%- 190%				
Over current protection	(Adjustable by using the remote set-up software)				
Input	AC Fuse: 800V/1200VA.				
Over current protection	Re-settable over current protector: 1600VA-8000VA				
AVR Range (2 Bucks, 2 Boosts)	Enhanced Buck: +28% of selected nominal voltage : Buck mode: +10% of selected nominal voltage : Boost mode: -10% of selected nominal volta e : Enhanced Boost: -25% of selected nominal voltage				
Surge Protection	8000/1200VA:220 Joules: 1600VA-8000VA:440 Joules				
Battery Protection	Over current protection & Over charging voltage protection (SCR control) : Thermal protection (CPU control): When temperature inside the unit is over 45°C, charger will stop charging for 2 minutes followed by an 2 minutes charging. The cycle will be repeated until the temperature is lower than 44°C.				
Noise Filtering	Full time EMI/RFI filtering				
Solar Protection	DC input polarity protection, DC input short circuit protection (when battery is connected), DC output over current protection.				
Isolation					
	With DC/AC isolation				
Environmental Safety					
Operating Temperature	Up to 1500 meters: 0°C to 40°C (32°F to 104°F)				
Transit/storage Temp.	-15°C to 55°C (5°F to 131°F)				
Relative Humidity	5 - 95% non condensing				
Operating Altitude	0 - 3000 meters				
Physical					
Dimensions: (DxHxW)	Wall-mount type:				
Unit I Shipping	800VA/1200VA: 12 X 25 X 37 (em) / 22 X 31 X 47 (em) 1600VA - 4000VA:20 X 41 X 30 (em) / 36 X 61 X 41(cm) 8000VA:N/A				
Weight: Net Gross (kg)	Wall-mount type: 800VA: 10/11 (kg) / 1200VA: 13/14 (kg) 1600VA: 15/16 (kg) / 2400VA:26/28 (kg) 3200VA:34/36 (kg) / 4000VA:41/43 (kg) 8000VA:N/A				

DP Electronics (Deutsche Power Co. Limited) has a policy of continuous product development and improvement and therefore reserve the right to vary any information without prior notes.