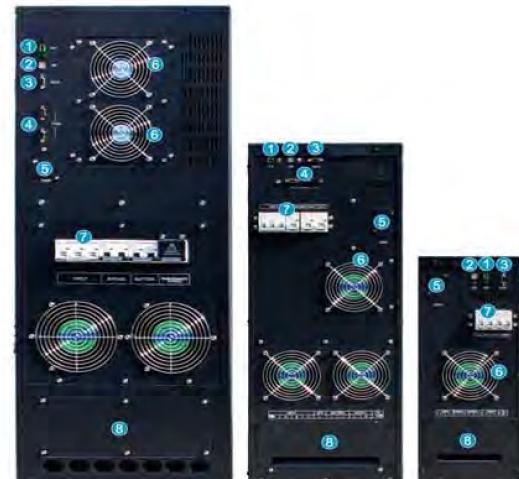


10 kVA ~ 30 kVA (3:1)  
PF 0.8



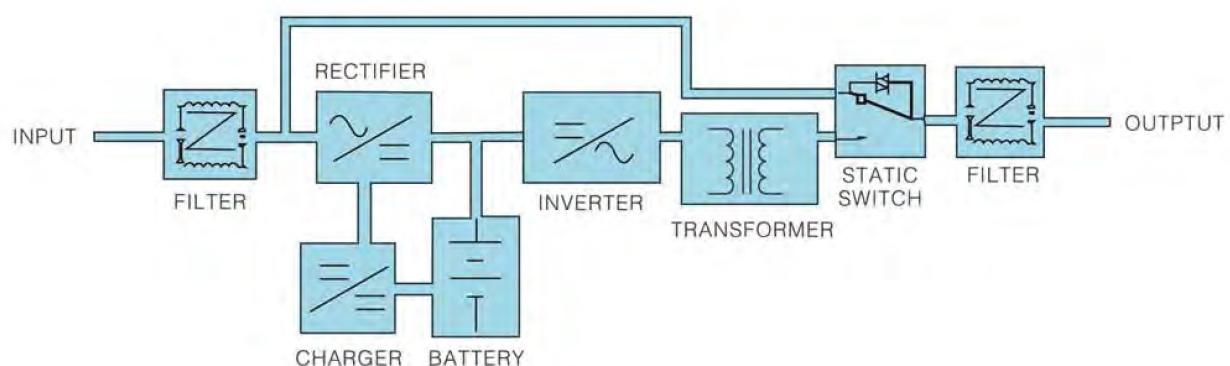
### Features

- Three / single-phase models with on-line double conversion technology
- DSP (Digital Signal Processors) technology
- Suitable for all kinds of loads (resistive, inductive and non-linear loads etc)
- High overload capability (up to 150%)
- Bypass dual DSP control design to enhance more reliability
- Supports dual input, hot standby in series
- Redundant & parallelable with advanced parallel current-sharing control technology
- Cold start and mains start function
- High charging capability: 2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable (standard), 14 A / 16 A / 18 A / 20 A / 22 A / 24 A selectable (options)
- Standard configuration with output isolation transformer
- Superior protection (surges, short-circuit, overvoltages, undervoltages, overcharge, reverse connection protection etc)
- Advanced communications (RS232 and USB ports (standard), SNMP, dry contacts and RS485 (options))
- Other options (parallel kits, input isolation transformer, bypass isolation transformer and harmonic suppressor)



Rear Panel

- |                  |                    |
|------------------|--------------------|
| 1. EPO           | 5. SNMP (optional) |
| 2. USB           | 6. Fan             |
| 3. RS232         | 7. Breaker         |
| 4. Parallel port | 8. Terminal        |



## Specifications

MODEL	HD-10KL	HD-15KL	HD-20KL	HD-30KL
Capacity	10 kVA 8 kW	15 kVA 12 kW	20 kVA 16 kW	30 kVA 24 kW
<b>INPUT</b>				
Rated voltage		380 / 400 / 415 Vac (3 $\phi$ + N + PE)		
Voltage range		285 ~ 475 Vac		
Rated frequency		50 Hz / 60 Hz		
Frequency range		40 ~ 70 Hz		
Frequency tracking range		$\pm$ 5% Hz		
<b>BYPASS</b>				
Rated voltage		220 / 230 / 240 Vac (1 $\phi$ + N + PE)		
Overload		Load current < 150% rated current: long time running, 150% $\leq$ load current < 200% for 1 min, 200% rated current $\leq$ load current for 200 ms		
<b>BATTERIES</b>				
Battery voltage		192 Vdc		
Battery type		VRLA AGM maintenance-free lead based		
Number of battery		12 V $\times$ 16 pcs		
Charging voltage		216 Vdc		
EOD		168 Vdc		
Charging current		Default 8 A (2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable)		
<b>OUTPUT</b>				
Rated voltage		220 / 230 / 240 (1 $\phi$ + N + PE)		
Power factor		0.8		
Waveform		Sinusoidal		
Rated frequency		50 Hz / 60 Hz (settable)		
Frequency precision		Mains mode: track bypass input in the state of synchronization Battery mode: 50 / 60 $\pm$ 0.1 Hz		
Voltage precision		$\pm$ 1%		
Recovery time of transient voltage		< 20 ms		
Crest factor		3:1		
THDV		$\leq$ 3% (linear load); $\leq$ 6% (non-linear load)		
Overload		Load $\leq$ 105%: long time running, 105% $<$ load $\leq$ 125% for 10 min, 125% $<$ load $\leq$ 150% for 1 min, 150% $<$ load $\leq$ 200% for 200 ms, 200% $<$ load for 100 ms		
<b>OTHERS</b>				
Transfer time		0 ms		
Protections		Short-circuit – overload – overvoltage – undervoltage – low battery – overtemperature		
Communications		RS232 / USB (standard); RS485 / SNMP / dry contacts (optional)		
Operating temperature		0 ~ 40°C		
Storage temperature		- 25°C ~ 55°C (without batteries);		
Relative humidity		0 ~ 95% (non-condensing)		
Operating altitude		$\leq$ 1000 m (derating 1% for each additional 100 m)		
Noise level		< 60 dB (at 1 m)		
MTBF		MTBF > 200000 h		
MTTR		MTTR < 0.5 h		
IP rating		IP 20		
Dimensions (W $\times$ D $\times$ H) (mm)	310 $\times$ 600 $\times$ 880		400 $\times$ 815 $\times$ 1100	
Packaged dimensions (W $\times$ D $\times$ H) (mm)	430 $\times$ 710 $\times$ 1080		525 $\times$ 925 $\times$ 1305	
Net weight (kg)	130	201	230	277
Gross weight (kg)	142	216	245	292

● All specifications subject to change without notice.

● Custom-made specifications are acceptable.