Quasar 60-120

Online double-conversion, 60-120kVA, with 3-phase input, 3-phase output

The UPS Quasar 60-120kVA is a progressive development of UPS Quasar 10-40kVA version.

The Quasar enables a reliable and uninterruptible power line. It is a double-conversion unit for supersensitive industrial and IT applications current available.

Up to 6 systems can be connected in parallel for redundant operations (n+1operation) or for power increase.

- UPS-classification VFI-SS-111 in accordance with IEC 62040-3
- Online double-conversion
- Input power factor 0.95
- Sine wave current consumption
- 100% asymmetric load (>10 s)
- 2 separate infeeds
- Wide input voltage range
- ”Power save” mode
- Automatic and manual bypass
- Modular battery extension
- Menu-controlled LCD display
- Fully front-operable
- RS-232, communication and SNMP via adapter
- 24 months’ warranty
- N+1 redundancy (optional)

Specifications

Power (in kVA)	Autonomy time in min. (more info on request)	UPS dimensions (H x W x D in mm)	battery cabinet dimensions (H x W x D in mm)	Weight in kg
60	10	1800x700x740	1220x770x950	300+915
	14	1800x700x740	1220x770x950	300+980
	20	1800x700x740	1800x911x800	300+1192
	35	1800x700x740	1800x1211x800	300+1741
80	5	1800x700x740	1220x770x950	335+915
	9	1800x700x740	1220x770x950	335+980
	13	1800x700x740	1800x911x800	335+1171
	25	1800x700x740	1800x1211x800	335+1713
100	5	1800x700x740	1220x770x950	365+980
	9	1800x700x740	1220x770x950	365+1171
	16	1800x700x740	1800x1211x800	365+1713
	25	1800x700x740	1800x2411x800	365+2654
120	5	1800x700x740	1800x911x800	455+1466
	9	1800x700x740	1800x911x800	455+1466
	16	1800x700x740	1800x1211x800	455+2143
	27	1800x700x740	1800x1811x800	455+3069

Type	Q060	Q080	Q100	Q120
Power				
Power in kVA/kW	60/48	80/64	100/80	120/96
Input power factor cos phi	0.95			
Input				
Voltage	3 x 380/400/415VAC (300÷480VAC)			
Frequency	50/60Hz (40÷70Hz)			
Input power factor correction	Yes			
Output				
Voltage	3 x 380/400/415VAC			
Current in ampere	87	115	144	174
Regulation - static	< 1%			
Regulation - dynamic (100% laod fluctuation)	< 6%			
Overload inverter Overload static bypass	125% for 10 minutes / 150% for 10 seconds 150% für 30 minutes / 1000% für 0.1 seconds			
Frequency	50/60 Hz (± 0.005 % in backup mode)			
Synchronisation-range	± 1% to ± 4% selectable			
Waveform	Sine wave			
Crestfactor	3:1			
Harmonic distortion	<3% with linear load			
Fault reaction	Auto bypass mode / switch-off in case of overload, over-temp., short circuit			
Efficiency (battery full / 100% load)	>92%	>92.5%	>93%	>93.8%
Batteries				
Max. charging current in ampere (adjustable)	32	32	32	40
Nominal voltage	384VDC	384VDC	384VDC	480VDC
Number of 12 V blocks	32	32	32	40
Capacity of each block	65-200Ah			
Type	VRLA			
Expected lifetime	10 years			
Recharging time	8 hours 80% capacity			
Bypass (EUE)				
Nominal voltage	380/400/415V			
Overload capacity	10 x Inom 100 msec/ 1.5 x Inom 30 min			
Manual bypass (standard)	Yes			
Interface communication				
Display	LCD display with 21 alphanumeric / status messages			
Acoustic alert	Yes			
Interface	RS232 / relay contacts for 4 condition information			
SNMP	Optional via software and adapter			
Certificates & tests	CE			
EMC	EN50091-2, class A, IEC801-2, IEC801-3, IEC801-4			
Standards	IEC 146-4, EN50091-1, IEC 950			
Mechanics / environment				
Enclosure	Tower / Protection IP 20 (IEC529, IEC944)			
UPS dimension (H x W x D in mm)	1800x700x740			
Battery pack dimensions (H x W x D in mm)	Depends on battery capacity			
Weight in kg (UPS without batteries)	400	470	500	540
Ambient temperature	0-40°C (UPS without battery)			
Rel. air humidity	<95% non-condensing			
Audible noise at 1m distance	<60 dB(A) (depends on load and temperature)		<65 dB(A) (depends on load and temperature)	