

Quasar 160-300



Online double-conversion 160-250kVA with 3-phase input, 3-phase output

The Quasar 160-250kVA is one of the latest UPS series from EFFEKTA®. The Quasar 160-300 is currently the EFFEKTA®'s most advanced UPS.

The Quasar 160-300kVA UPS is available in ratings of 160, 200, 250, 300 KVA. It can be used for large electric installations, intelligent facilities management, large industrial plants, production lines and comparable supersensitive industrial applications.

Up to 6 systems can be connected in parallel for redundant operations (n+1 operation) or for power increase. With its three phases, the HF PWM converter, high efficiency and effective user interface, the UPS Quasar 160-300kVA is the perfect solution for all power supply problems.

- USP-classification VFI-SS-111 in accordance with IEC 62040-3
- True online double-conversion
- Input power factor 0.99
- "Power save" mode
- Frequency converter 50/60 Hz or 60/50 Hz
- DC start-up (black start)
- IGBT technology
- High frequency PWM technology
- Microprocessor-based regulation
- High efficiency
- High tolerance to line or load change
- Fast reaction to line or load change
- Standard DB9 connector for RS232 communication
- Contact interface to AS400, DOS, UNIX, NOVELL
- Multi-lingual LCD panel for regulation and measurement
- Event-Memory
- Self-diagnostic
- Local and remote power-off
- Alert contacts for long-distance transfer
- Specially patented RFI filter
- Parallel n+1 redundancy for up to 6 systems
- 24 months' warranty

Options for all Quasar models

- 12-pulse rectifiers
- Isolation transformer (input/output)
- External bypass
- Remote display
- Remote power-off (E.P.O.)

Specifications

Type	Q160	Q200	Q250	Q300
Power				
Power in kVA/kW	160/128	200/160	250/200	300/240
Input power factor - cos phi (100% load)	0.96			
Input				
Voltage	3 x 380/400/415VAC			
Voltage tolerance	(±10%)			
Maximum input current (in ampere)	305	369	449	530
Frequency	50/60Hz			
Frequency tolerance	(±10%)			
Input harmonic distortion	<30% / <10% (12 pulse) / <5% (12 pulse + filter)			
Output				
Voltage	3 x 380/400/415VAC			
Voltage tolerance	(±1%)			
Current in ampere	231	289	361	433
Overload inverter	125% / 10 min., 150% / 5 sec.			
Frequency	50/60Hz (± 0.005% in back-up mode)			
Synchronisation-range	± 1% to ± 4% selectable			
Waveform	Sine wave			
Crestfactor	3:1			
Harmonic distortion	<3% at linear load			
Fault reaction	Auto bypass mode / switch-off in case of overload, over-temp., short circuit			
Efficiency (battery full / 100% load)	94%	95.5%	95.2%	95.1%
Efficiency (battery full / 75% load)	95.5%	95.7%	95.6%	95.3%
Efficiency (battery full / 50% load)	95.2%	95.6%	95.6%	95.6%
Power loss max. (kW)	6,4	6,2	6,6	7,6
Batteries				
Nominal voltage	480VDC	480VDC	480VDC	528VDC
Type	VRLA			
Expected lifetime	10 years			
Recharging time	8 hours 80% capacity			
Bypass (EUE)				
Nominal voltage	380/400/415V			
Overload capacity	10 x Inom 100msec			
Manual bypass (standard)	Yes			
Interface communication				
Display	LCD display with alphanumeric / status messages			
Acoustic alert	yes			
Interface	RS232 / relay contacts for condition messages			
SNMP	Optional via software and adapter			
Certificates & tests				
EMC	TUV/GS, CE			
EMC	CE73/23, CEE89/336, CEI-EN62040-1-1, CEI-EN60950, CEI-EN50091-2, IEC-EN62040-1-2			
Mechanics / Environment				
Enclosure	Tower / Protection IP 20 (IEC529, IEC944)			
UPS dimension (H x W x D in mm)	1800 x 1240 x 800			
Weight in kg (UPS without batteries)	570	600	630	630
Dimensions with head exchanger (H x W x D in mm)	1800 x 1040 x 800			
Weight in kg (head exchanger)	110			
Ambient temperature	0-40°C (UPS without battery)			
Ideal ambient temperature	25°C			
Rel. humidity	<95% non-condensing			
Audible noise	<65 dB(A) at 1 m distance (depends on load and temperature)			