

# PWR 31

## High Efficiency Online Power Protection

3Phase Input / 1 Phase Output

**PWR 31 (3 phase input-1 phase output)** , model uninterruptible power supplies are the high technology devices manufactured to be used mainly in areas such as industry, medicine, military, education, finance, work centers, computer and communication systems. As this device is designed in on-line system, it feeds the loads it is connected with the stable frequency and the voltage produced by itself. Therefore there is not any transition time in cases of power failures.



- Galvanic isolation transformer
- Efficiency up to 94%
- Parallel operating feature
- Static by-pass feature
- Maintenance by-pass feature
- LCD front panel Event memory ( 164)
- Remote monitoring
- RS 232 and the dry contact outputs
- Special manufacturing input/outputs values according to the needs
- International standard compatible
- 2 years device and accumulator warranty
- 10 years spare part supply warranty
- Authorized service and customer services support
- Manufacturing with the quality assurance systems TESK, CE, ISO 9001



## PWR 31 (6-30 kVA) 3Phase Input / 1 Phase Output

TECHNICAL DATA						
MODEL	PWR 31-6	PWR 31-7.5	PWR 31-10	PWR 31-15	PWR 31-20	PWR 31-30
Power (kVA)	6	7,5	10	15	20	30
<b>INPUT</b>						
Voltage	230/400 VAC ( 220 / 380 VAC ) 3 PHASE + N, +/-20%					
By-pass voltage	230 VAC ( 220 VAC ) 1 PHASE + N, +/-10 %					
Frequency	50 Hz (60 Hz special order) +/-15%					
EMI	EN50091-2 Class A.					
Input voltage protection	Electronic input tolerance out protection					
<b>OUTPUT</b>						
Power (kW)	5,4	6,75	9	13,5	18	27
Power factor	Lagging to leading 0,9					
Voltage	220 VAC 1 PHASE + N, +/-1%					
Frequency	50 Hz (60 Hz special order)					
Frequency tolerance	+/-2% (Synchronized to network)					
	+/-0.2% (free operation)					
Efficiency (in 100% load)	>%94					
Crest factor	3:1					
Overload protection	10 minutes in 100%-125% load					
	1 minute in 125%-150% load					
	By-pass in >150%					
Short circuit protection	Electronic short circuit protection					
Output voltage protection	Electronic output voltage tolerance out protection					
THD (Total harmonic distortion)	<%3					
<b>ACCUMULATORS</b>						
Type	Maintenance free fully closed dry type					
Accumulator number	20			30		
Charge voltage	270 VDC			405 VDC		
Discharge end voltage	200 VDC			300 VDC		
Accumulator cabinet	Internal					
Accumulator operating temperature	<25 0C					
Accumulator protection	Automatic circuit breaker					
Accumulator voltage protection	Electronic accumulator voltage tolerance out protection					
Accumulator test	Optional ( Automatic in every 72 hours )					
<b>GENERAL</b>						
Interface	2 x 16 character LCD panel					
Communication	RS 232 + dry contact					
Software	PWR KGK software (3 users)					
Over heat protection	Electronic overheat protection					
Operating temperature range	0-40 °C. Optional 70°C					
Humidity (non-condensed)	90% maximum					
Protection class	IP20. Optional IP 42, IP 54					
Standart Height	2000 m					
Noise level	<50dBA			<55dBA		
Weight (without accumulator) kg	106	110	125	130	195	217
Dimensions (mm)HxWxD	950x265x740					
<b>OPTIONS</b>						
Input Transformer	Galvanic isolation transformer					
INPUT THD *	<10% (with 18 impact rectifier) excluding PWR 31-6 & PWR 31-7.5					
INPUT power factor*	095-0.98 (with 18 impact rectifier)					
MBS	Maintenance by-pass switch (For PWR 31-6 & PWR 31-7.5 ve PWR 31-10)					
Parallel operating	8+1 system (N+1, redundant, symmetric parallel)					
<b>STANDARDS</b>						
Marking	CE, GOST, TSE-HYB					
Safety	IEC EN 62040-1					
Test & Performance	IEC EN 62040-3					
Quality & Environment	ISO 9001:2008, ISO 14001:2004					