

# PWR 33 GOLD UPS

## IGBT Rectifier 3 Phase Input/ 3 Phase Output

PWR GOLD Series UPS' s are the high reliability devices with high input factor and low input harmonic distortion (THD) IGBT Rectifier and IPM (Intelligent Power Module) technology used in input and output. Optionally connected wireless remote monitoring panel and graphic display these devices are the ultimate point reached in uninterrupted power supply technology.



- High input power factor 0.99
- Low input current harmonic distortion <5%
- Efficiency up to 96%
- Parallel operating feature
- Emergency shut off switch connection
- Static by-pass feature
- Maintenance by-pass feature
- LCD front panel
- Isolation transformer option in input and output according to the application
- Event memory ( 164)
- Remote monitoring
- Automatic and manual accumulator testing
- SNMP Compatible communication
- MODBUS compatible communication option
- RS232 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 TSEK, CE and ISO 9001



# 10-300x8=2400 kVA

## POWER 33 GOLD (10-800KVA) IGBT RECTIFIER

MODEL	GOLD 33-10	GOLD 33-15	GOLD 33-20	GOLD 33-30	GOLD 33-40	GOLD 33-60	GOLD 33-80	GOLD 33-100	GOLD 33-120	GOLD 33-160	GOLD 33-200	GOLD 33-250	GOLD 33-300	GOLD 33-400	GOLD 33-500	GOLD 33-600	GOLD 33-800	
POWER	10	15	20	30	40	60	80	100	120	160	200	250	300	400	500	600	800	
<b>INPUT</b>																		
Input Power Factor	0,99 THDI < %4																	
Voltage	220/380 VAC 3 PHASE + N, +/-20%																	
By-pass voltage	220/380 VAC 3 PHASE + N, +/-15%																	
Frequency	50 Hz(60 Hz special order), +/-5%																	
EMI/RFI	EN62040-1, EN 62040-3 Class A																	
Input voltage protection	Electronic input tolerance protection																	
<b>OUTPUT</b>																		
Power (kW)	9	13,5	18	27	36	54	72	90	108	144	180	225	270	360	450	540	720	
Power factor	Lagging to leading 0,9																	
Voltage	220/380 VAC 3 PHASE + N																	
Voltage tolerance	(Balanced load:+/-1%) (imbalanced load:+/-2%) (sudden loading:+/-%5)																	
Voltage compensation time	After sudden loading max: 25 ms																	
Frequency	50 Hz(60 Hz by request)																	
Frequency tolerance	(Synchronized to network +/-2%) (Free operation:+/-0.2%)																	
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)	In linear load: <3%																	
(THD)	In non-linear load: <5%																	
<b>ACCUMULATORS</b>																		
Type	Maintenance free fully closed dry type																	
Accumulator number	2 x 30																	
Charge voltage	810 VDC																	
Discharge end voltage	600 VDC																	
Accumulator operating temperature	< 25 °C																	
Accumulator protection	Automatic circuit breaker																	
Accumulator voltage protection	Electronic accumulator voltage tolerance out protection																	
Accumulator Test	Automatic in every 72 hours																	
<b>GENERAL</b>																		
Operating time indicator	Exists as standard																	
Interface	2x16 character LCD panel																	
Communication	Dry contact and RS232																	
Software	T-Mon UPS software (3 users)																	
Over heat protection	Electronic																	
Operating temperature range	0-40 °C																	
Cooling	Blast cooler																	
Humidity (Non-condensed)	< %90																	
Protection class	IP20																	
Height	2000 m																	
Noise level	50 dBA						55 dBA						50 dBA					
Weight (without Accumulator) (kg)	96	105	110	183	196	225	350	350	375	425	500	600	600	1000	1200	1200	2000	
Dimensions (mm) H x W x D	1035x375x735			1440x490x840			1900x780x890			1900x1560x890			1900x2340x890					
<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																	
<b>OPTIONS</b>																		
Input Galvanic Isolation Transformer, Output Galvanic Isolation Transformer																		
Snmp, software, profibus,modbus ,protection class from IP 00 to IP 65, mobile, army type, colour, All custom design.																		