



10 - 15 kVA

QUANTUM PLUS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

GENERAL SPECIFICATIONS

- Online-Double conversion
- Output transfer time is 0ms
- PFC technology
- Full digital control (DSP)
- Output power factor 0.9
- Input current harmonic: $\leq 3\%$
- Eco Mode function
- Charging/Rectifier/Inverter/ fully digital control technology
- Optimization battery group, the quantity of battery: 10~30k (16/18/20 pcs optional) (20 pcs standard)
- Wide input voltage range: 208~478VAC
- Wide input frequency range: 40~70Hz
- Cold start
- Communication port: USB/RS232/RS485/parallel port/dry contact
- Options: SNMP card/relay card
- LCD / LED double display
- Intelligent charging management
- EPO function
- Common battery group
- The output can meet 100% unbalanced load



Tescom®





10 - 15 kVA

TECHNICAL SPECIFICATIONS



MODEL	QUANTUM PLUS 310	QUANTUM PLUS 315
Capacity(kVA/kW)	10kVA/9kW	15kVA/13.5kW
INPUT		
Nominal voltage	380/400/415VAC, (3P+N+PE)	
Operating voltage range	208 ~ 478VAC	
Operating frequency range	45~55Hz at 50Hz / 54~66Hz at 60Hz (auto sensing)	
Power factor	≥ 0.99	
Bypass voltage range	380VAC max. voltage: +25% (optional +10%, +15%, +20%) 400VAC max. voltage: +20% (optional +10%, +15%) 415VAC max. voltage: +15% (optional + 10%) Min. voltage: - 45% (optional -20%, -30%)	
Bypass frequency range	Frequency synchronize tracing range: ±10%	
ECO mode	Same as by-pass	
THDi	≤ 3% (100% non-linear load)	
OUTPUT		
Output voltage	380/400/415VAC (3P+N+PE)	
Power factor	0.9	
Voltage regulation	± 1%	
Frequency	Line mode	± 1% / ± 2% / ± 4% / ± 5% / ± 10% of the rated frequency (optional)
	Bat. mode	50/60 (± 0.1Hz)
Crest factor	3:1	
THD	≤ 2% with linear load	
	≤ 5% with non-linear load	
Efficiency	93.50%	94.50%
BATTERY		
Battery voltage	Standard unit: ±120VDC (20pcs12V/9Ah); (Optional) Long run unit: ±96V/±108V/±120Vdc (16/18/20pcs)	Standard unit: ±120VDC (2x20pcs12V/9Ah); (Optional) Long run unit: ±96V/±108V/±120Vdc (16/18/20pcs)
Charge current	Standard unit 1.35A, Long run unit: max current 10A	Standard unit 2.7A, Long run unit: max current 10A
SYSTEM FEATURES		
Transfer time	Utility to battery: 0ms; Utility to by-pass: 0ms	
Overload	Load ≤ 110%; last 60min, ≤ 125%: last 10min, ≤ %150: last 1min, ≥ %150 change to by-pass	
Short circuit	Hold Whole System	
Communication	USB, RS232, RS485, Parallel port, REPO port, Coupler dry contact, Intelligent slot, SNMP card (optional), Relay card (optional).	
ENVIRONMENTAL		
Operating temperature	0 - 40°C	
Storage temperature	-25 ~ 55°C (no battery)	
Humidity range	0 - 95% (non-condensing)	
Altitude	< 1500m. When > 150m, lower the rated power for use	
Noise level	< 55dB	< 58dB
PHYSICAL		
Dimensions HxWxD (mm)	868x258x828	
Net weight (kg)	115/57 (with battery/without battery)	170/63 (with battery/without battery)
STANDARDS		
Safety	IEC/EN62040-1, IEC/EN60950-1	
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8,	