

DALTON

Modular Design
Online Double Conversion **UPS**
Latest **DSP** Technology



M33 Series
(20KVA-200KVA)



- Dalton Modular design is aspire to introduce the latest DSP true on-line double conversion UPS as you grow for protecting small and medium sized mission medical, critical & IT loads so as to safeguard your valuable equipment and critical data from any interrupted power, such as surges, blackouts and lighting strikes.

- Modular design with N+X redundancy
- Online hot swapping, by-pass and power module feature
- Full DSP control of high stability, reliability and safety
- 3Level topology
- Excellent input performances for complete compatibility with input PF of 99% and wide range of voltage
- User friendly machine interface with touch screen
- Hot swap battery system in single cabinet up to 60kVA
- Smart charging management system, intelligently control the whole process of the charging and discharging effectively improve the life time of the battery
- Independent charger for batteries, intelligent battery management system
- Battery cold start, UPS can be powered on from the battery without utility.
- Totally front access, top and bottom cable connection

Technical Specifications

Model		MR60/20	MR120/20	MR200/20	MR60/20B
Rating Power		20 - 400kVA			20 - 60kVA
Power module type		TPM20 (20kVA/18kW)			
Input	Input system	3 Phases + N & earth ground			
	Voltage range	380V/400V/415V (line to line)			
	Power factor	> 0.99			
	Frequency	40Hz 70 ~Hz			
Output	Output system	3 Phases + N & earth ground			
	Rated voltage	380V/400V/415V			
	Power factor	0.9			
	Voltage precision	±2%			
	Voltage distortion	THD < 1.5% (linear load), THD < 6% (none linear load)			
	Output waveform	Pure Sine Wave			
	Output frequency	50Hz / 60Hz			
	Inverter overload capacity (Utility power, 25°C)	110% for 1 hour; 125% for 10 minutes ;150% for 1 minute; >150% for 200ms			
	Transfer time	0ms			
	Crest factor	3:1			
Battery	Batteries voltage	± 240 VDC for 40 batteries (selectable battery number 36-44)			
	Battery Type	Sealed maintenance-free lead –acid battery / Gel Battery / NiCd			
	Backup Time (25°C)	Full load ≥ 5min (Standard)			
	Battery quantity				
System	Parallel (cabinet)	6	3	2	0
	System efficiency	Normal mode: 95%; ECO mode: 98%; Battery mode: 95%			
	Display	LCD + LED, touch screen + keyboard			
	IP class	IP20			
	Interface (communication port)	Standard: RS232,RS485, Dry contacts, EPO / Optional: SNMP card			
	Operation/storage temperature	0°- 40°C /40°-70°C			
	Relative humidity	0°C95% (non-condensing)			
	Noise	55dB (1 meter away)			
L*W*H (mm)	3-Slot cabinet: 1100x900x600; 6-Slot cabinet: 1600x900x600;10-Slot cabinet: 2000x900x600			3-Slot cabinet:2000x600x1020	
Weight (kg)	3-Slot cabinet: 120; 6- Slot cabinet: 151;10-Slot cabinet: 182			3-Slot cabinet:205	

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