

EPU (Electric Power Unit) Features & Specs

DESCRIPTION

Quantum’s EPU (Electric Power Unit), is a cutting-edge solution for fully electric stabilizers offering unparalleled energy efficiency, responsiveness, and durability. The EPU receives command signals from the E6 controller, amplifies them, and delivers the appropriate voltage and current to the e-FIN servo motor to produce precise motion. This compact cabinet houses a state-of-the-art servo drive system, integrated with an advanced energy storage system. By harnessing the rapid charge and discharge capabilities of electrolytic capacitors, the unit provides instantaneous power support during peak demands and recovers excess energy during the fin deceleration phase.



FEATURES:

- Low power consumption, energy savings
- Low harmonics distortion with advanced active front end technology
- Easy on the grid with low power fluctuations
- Power peak shaving with energy buffer specially designed for short load cycles
- High power factor (>0.99)
- Accurate motor control

Description	Symbol	Unit	Value
Rated input voltage	U_{LN}	V	3 x AC 380Y/220V ... 480Y/277V
Rated input current	I_{LN}	A	30.5
Power factor at nominal operation.	TPF		>0.99
Ambient temperature range for operation with nominal data	T_{AMB_NOM}	°C	-5 ... 45
Cooling type			Forced ventilation
Power dissipation at continuous current	P_{Diss_cont}	W	1600
Protection category IP to EN 60529			IP 55
Mass	m	kg	315
Dimensions	HxDxW	mm	1700x500x800

*Equipment is covered by Quantum's 1-year comprehensive warranty.
Service and technical support are available worldwide.*