

# WATER-COOLED PLW SERIES

## ELECTRONIC LOADS



### Advantages:

- Broadest Model Selection: 6kW, 9kW, 12kW, 18kW, 24kW, 36kW, Additional standard models above 36kW, up to 250kW, are available.
- Standard 60V, 120V, 400V, 600V, 800V and 1000V Voltage Ratings
- PLW Models Offer Ultra-compact Footprint and Boasts one of the industry's highest power densities, 18kW in 2U.
- Anti-condensation: Intelligent Fully-integrated Temperature Control Circuit and Solenoid Valve
- Standard LabWindows and LabVIEW Drivers and SCPI Command Set
- RoHS Compliant

Traditional DC Electronic Load Solutions are bulky and large in size. Most are offered with standard voltage, current and power ratings. In the ATE world, rack space is a highly coveted asset and application demands are constantly diversifying with new technology development.

AMETEK Programmable Power's Sorensen brand PLW Series "Water-cooled" DC Electronic eLoads are capable of being custom-tailored to meet your specific application requirements. The PLW Series also offers a unique condensation protection design, the highest power density and current rating, as well as the widest selection of high-voltage models on the market.

### Key Features

#### Closed-case Calibration

With the Sorensen eLoad line, there's no longer a need to send your electronic load back to the factory for calibration or remove dozens of screws to reach a potentiometer. Simply follow the calibration routine from the front panel and you should be back up and running in a very short period of time (some electronic test equipment needed). This will virtually eliminate downtime and eradicate the annual cost associated with shipping your eLoad back to the factory for calibration.

#### Individual FET Protection

To ensure the reliability of the PLW Series, the design includes individual FET protection. A programmable electronic load may contain many FETs in parallel, which can create a cascading failure if one of them was to short out. The PLW eLoad programmable electronic load design isolates failures so other components will not be affected or stressed, increasing the system's level of protection against catastrophic failure. With individual FET protection, the MTTR is reduced and the electronic load quickly returns to full operation.

#### Ultra-low Voltage Operation

The PLW design allows the programmable electronic load to operate at voltage levels approaching 0.1V. They will typically dissipate full rated current below 1% of their maximum rated voltage. For example, a 60V unit designed to dissipate 1500A will allow the user to operate at 0.6V and still dissipate the full amount.

PLW SELECTOR GUIDE		AMP	15A	25A	30A	40A	50A	75A	100A	150A	200A	300A	400A	600A	800A	1000A	1200A	1500A
MODEL	VOLT																	
PLW6K	60V																	
	120V																	
	400V																	
	600V																	
	800V																	
	1000V																	
PLW9K	60V																	
	120V																	
	400V																	
	600V																	
	800V																	
	1000V																	
PLW12K	60V																	
	120V																	
	400V																	
	600V																	
	800V																	
	1000V																	
PLW18K	60V																	
	120V																	
	400V																	
	600V																	
	800V																	
	1000V																	
PLW24K	60V																	
	120V																	
	400V																	
	600V																	
	800V																	
	1000V																	
PLW36K	60V																	
	120V																	
	400V																	
	600V																	
	800V																	
	1000V																	

**ORDERING INFORMATION**

**PLW**   **24K** - **60** - **1500**   **OPTIONS**

POWER (MAX)      VOLTAGE (MAX)      CURRENT (MAX)

OPTIONS, IF ANY:  
 E = ETHERNET INTERFACE  
 I = ISOLATED ANALOG INPUT  
 UL = ULTRA-LOW RANGE

Thurlby Thandar Instrument Distribution  
 Glebe Road, Huntingdon, PE29 7DR, UK  
**+44 (0)1480 412 451**  
**sales@ttid.co.uk**  
**www.ttid.co.uk**

**TTid**.co.uk  
**THURLBY THANDAR**  
 instrument distribution