

# SIGNAL & POWER TRANSFER SYSTEMS

USDK656  
FOR GE 1.5 MW  
(NON-ESS) WIND TURBINES  
65A / 400V



USDK656 is a modern signal & power slip ring system, using Mersen premium carbon brush grades to transmit signal, data and power.

Mersen premium carbon grades are based on tribological experience with low wear rate, which translates to less dusting, reliable data transfer, power and extended life of the component.

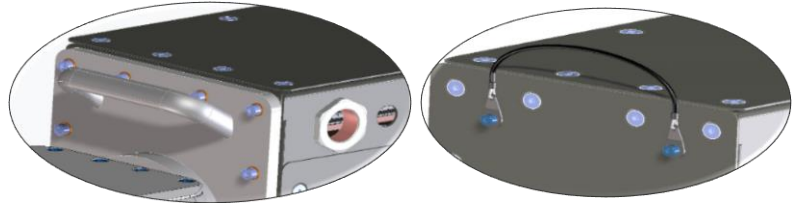
The design was optimized to withstand harsh operating conditions and a wide range of vibration frequencies:

- Integrated connection cabinet allows for easy access of internal connections and quicker maintenance
- A novel sealing design provides extra protection from environmental degradation. Designed according to international ISO, UL and CSA standards.
- Cleaning is a quick process with removable covers, as shown on overleaf

## FACTS & FIGURES

- Dimensions (L x W x H)  
870 x 225 x 260 mm
- Weight:  
30.8 kg
- Heating:  
PTC 70 W regulated
- IP protection class:  
IP 54 class 2
- Number of channels:  
35
- Max. Amp rate:  
65 A
- Max. Voltage:  
400 V
- Data / Signal:  
RS422  
24 V / 1 A  
24 V / 16 A

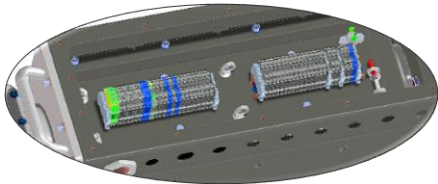
MERSEN PROPERTY



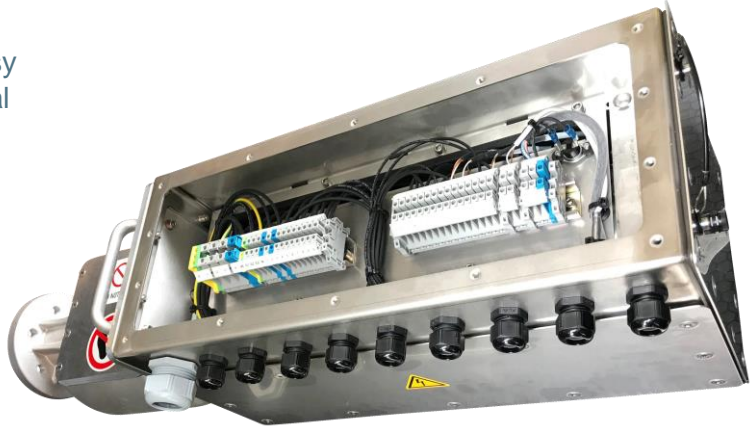
Handles at each end of the unit



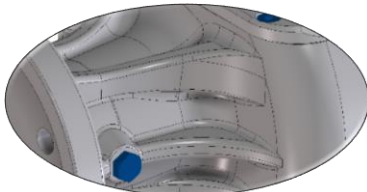
Flat adapter for easy access, easy cable clamping and a rubber seal



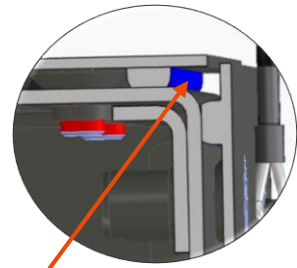
Power and data signal ports for stator side inside top cover



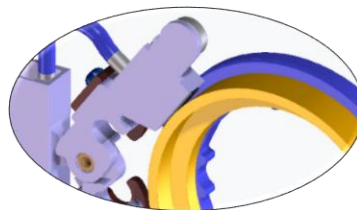
Easily accessible components



Adapter neck with minimized stress using FEM design standards



IP54 class 2 standard with a sputtered-on sealing



Specially developed material combination of slip ring and carbon brush grade allowing maximum lifetime and reliability

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