



**CAP-START<sup>®</sup>3000 12V  
12 VDC ENGINE STARTER  
BID SPECIFICATION  
REVISED: March 1, 2019**

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<b>Type:</b>	Vanair <sup>®</sup> CAP-START <sup>®</sup> 3000 12V. New and in current production.
<b>12V Start:</b>	Fast self-recharge rate of 15 seconds. Elevated starting potential to negate cable voltage loss. High output discharge of up to 3240 AMP, specifically designed to overcome the initial friction for starting rotation in cold engines, followed by continued output power of approximately 800-1000 AMP through the starting event. Able to maintain glow plug and machine/vehicle parasitic loads without draining the capacitor start system. Override function to allow for charging of batteries below 4V.
<b>12V Charge:</b>	240 AMP 3-stage charging system. Time out technology to prevent battery over charge with over current monitoring.
<b>Safeties:</b>	Weather protected electrical enclosure, reverse polarity protection, open,closed or low circuit safety, low engine oil pressure shut down, engine over temperature shut down and self-regulating 3-stage charging system.
<b>Starting Cables:</b>	30' 3/0 starting cables. Flexible down to -67 °F (-55 °C), UL class K stranded copper utilized to minimize voltage drop.
<b>VSC<sup>™</sup> :</b>	Vanair <sup>®</sup> Super Capacitor (VSC <sup>™</sup> ) 3000 AMP at 12V capabilities. Meets MIL specifications vibration ratings.
<b>DC Alternator:</b>	240 AMP @ 12 VDC, externally excited, microcontroller regulated to allow efficient total control over unit charging and starting modes.
<b>Fuel Capacity:</b>	Integrated 1.725 gal tank
<b>Machine Weight:</b>	Dry weight (Lbs.): 295
<b>Engine:</b>	Briggs & Stratton <sup>®</sup> 14.5 HP gasoline engine (420 cc 21.00 Ft. Lbs. @ 2800 RPM *Per SAE J1940)
<b>Dimensions:</b>	36L x 21W x 20H (In.)
<b>Battery:</b>	Integrated
<b>Instrument Panel:</b>	Features include engine start/stop function, hour meter, display for voltage output, battery charge/boost mode selector switch, mode indicator lights and system fault lights. High amperage connector at machine for boosting.
<b>Drive System:</b>	V-Belt drive system with manual tensioner.
<b>Metal:</b>	Fully powder-coated with galvanneal sheet metal enclosure around electrical or critical components, 3/16" plate steel mainframe, optional internal lift hook or lifting points and easy service access.
<b>Service Centers:</b>	Manufacturer must have factory authorized service centers located in each state of the United States of America and Canadian provinces.